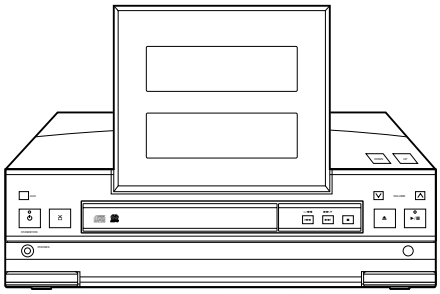
Service Manual



ORDER NO.
RRV1997

STEREO CD RECEIVER

XC-L5

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	XC-L5		
MYXK	○	AC220 – 230V	
NVXK	○	AC230V	

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T – IZK AUG. 1998 Printed in Japan

1. SAFETY INFORMATION

LITHIUM BATTERY NOTICE

WARNING!

Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.

This warning is stated on the product or in the operating instructions. When replacing the lithium batteries, follow the note below.
Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.
The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded views.

ADVARSEL!

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

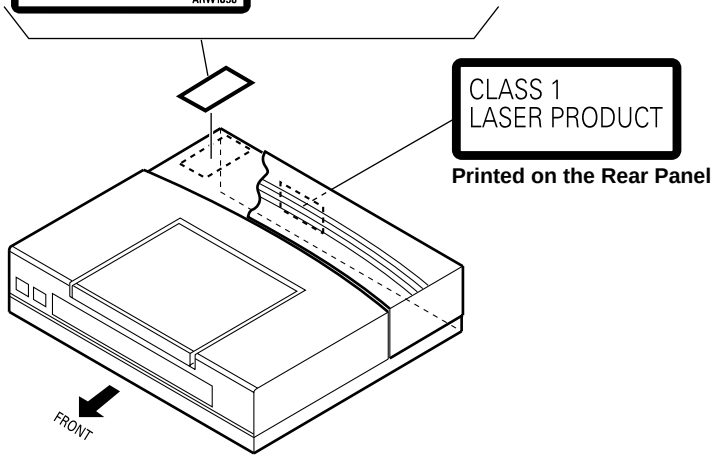
Denne advarsel or angivet på produktet eller i brugsvejledningen. Ved udskiftning af lithium batterierne følges nedenstående anveisning.
Batterierne må kun udskiftes med batterier af samme type og mærke.

LABEL CHECK

ADVARSEL
USYNLIG LASERTRÅLING VED ÅBNING NÅR SIKKERHED SAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO !
Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.
VORSICHT !
UNSICHTBARE LASER-STRAHLUNG TRITT AUS, WENN DECKEL(ODER KLAPPE)GEÖFFNET IST! NICHT DEM STRAHL AUSSETZEN!
VARNING !
Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.
ARW1047

MYXK type

NVXK type



Printed on the Rear Panel

IMPORTANT

THIS PIONEER APPARATUS CONTAINS LASER OF CLASS 1.
SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUTED PERSON.

LASER DIODE CHARACTERISTICS

MAXIMUM OUTPUT POWER: 5 mw
WAVELENGTH: 780 – 785 nm

Additional Laser Caution

1. Laser Interlock Mechanism
   The loading position detect switch (in CD mechanism assembly) is set to "CLMP ON(CD CLOSE)" (ON:low level,OFF:high level) position, the system control IC(IC5501) get the "CLMP" signal, and hand the laser "LDON" signal to IC1101.
   Then a laser diode can be lighted except when the level of signal CLMP is low.
   The interlock also does not function in the test mode∗.
   Laser diode oscillation will continue, if pin 1 of CXA1821M (IC1101) on the CDMAIN UNIT is connected to GND, or pin 19 is connected to low level (ON), or else the terminals of Q1101 are shorted to each other (fault condition).

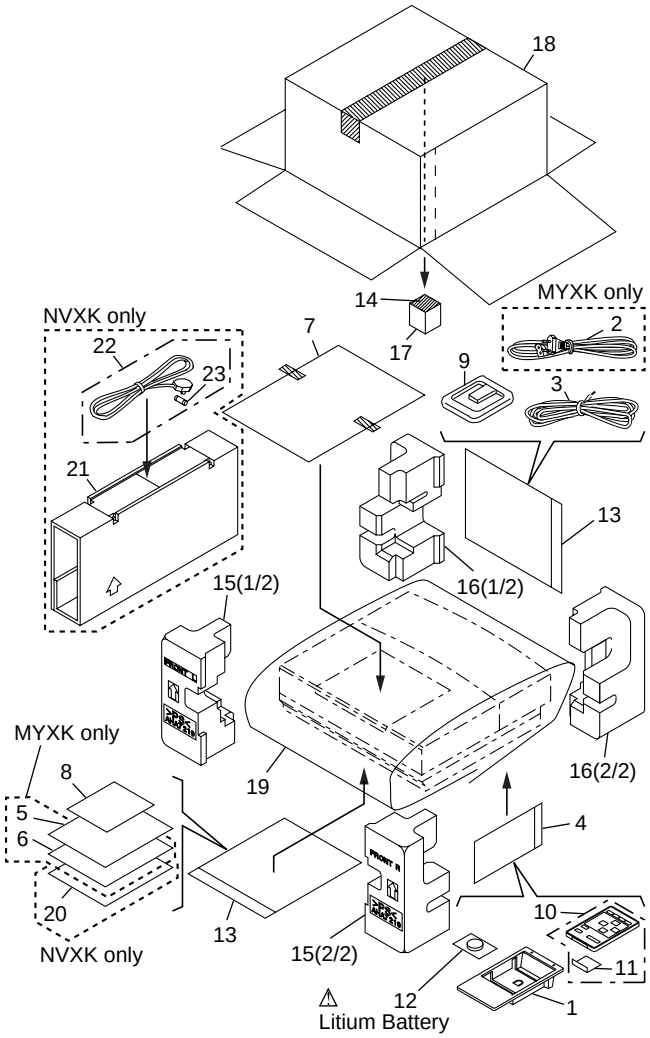
2. When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

∗ : Refer to page 41.

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

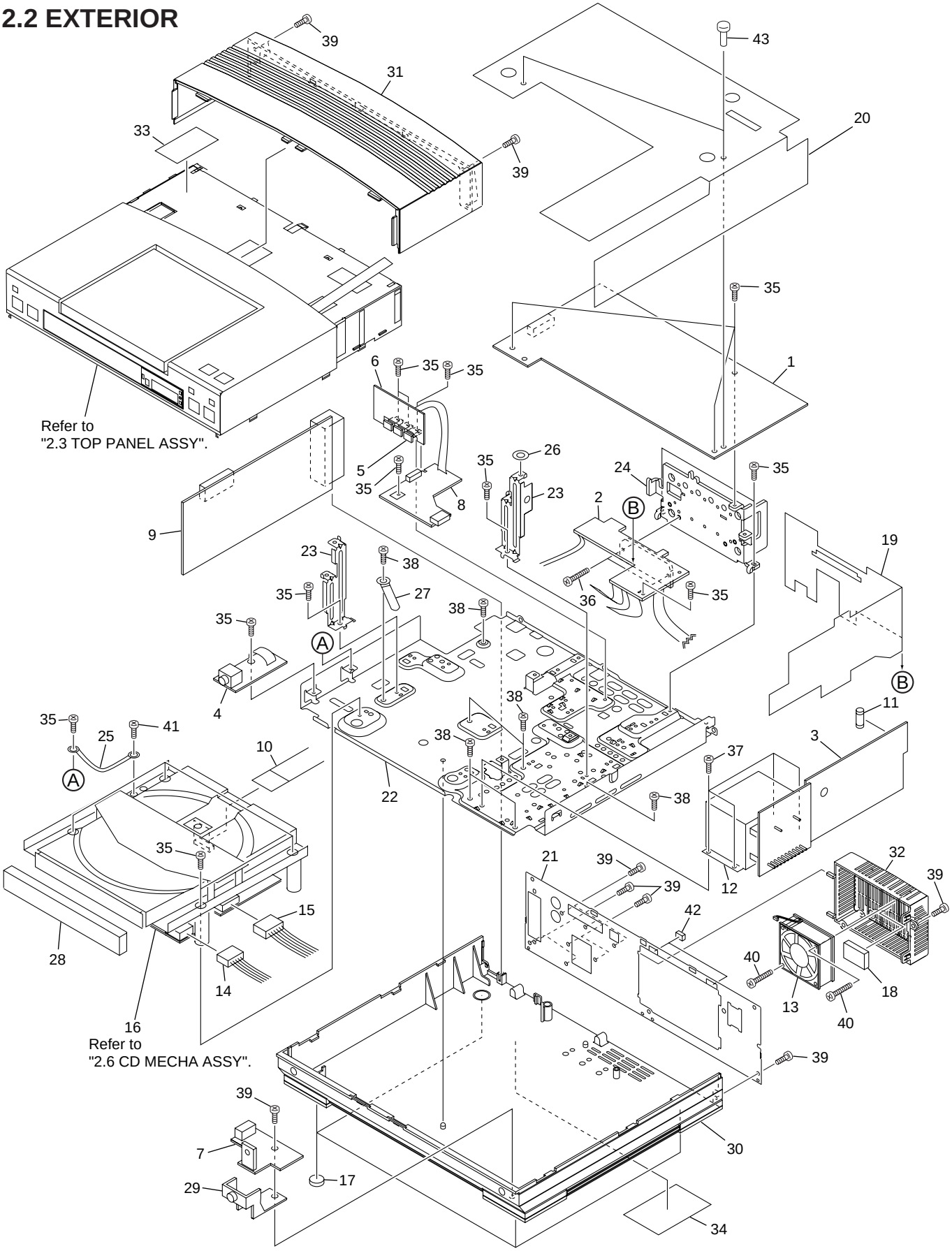
Mark	No.	Description	Part No.
	1	Remote Control Unit Holder	AAH7013
⚠	2	Power Cord	See Contrast table (2)
	3	FM Antenna	ADH7005
NSP	4	Vinyl Bag	AHG7031
	5	Operating Instructions (English/French/German/Italian)	See Contrast table (2)
	6	Operating Instructions (Dutch/Swedish/Spanish/Portuguese)	See Contrast table (2)
NSP	7	Demo Caution	ARR7016
NSP	8	Warranty Card (E-J)	ARY7022
	9	AM Loop Antenna	ATB7007
	10	Remote Control Unit (CU-XC005)	AXD7170
	11	Battery Case	AZE7116
NSP⚠	12	Lithium Battery (CR2025)	VEM1009
	13	Polyethylene Bag	Z21-038
NSP	14	Technibond431	AEH7006
	15	Pad F	AHA7219
	16	Pad R	AHA7220
	17	S Pad	AHA7230
	18	Packing Case	See Contrast table (2)
	19	Seat	Z23-007
	20	Operating Instructions (English)	See Contrast table (2)
	21	Sub Packing	See Contrast table (2)
⚠	22	Power Cord	See Contrast table (2)
⚠	23	Fuse (T5A)	See Contrast table (2)

(2) CONTRAST TABLE

MYXK and NVXK type are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			MYXK type	NVXK type	
⚠	2	Power Cord	ADG7010	Not used	
	5	Operating Instructions (English/French/German/Italian)	ARE7171	Not used	
	6	Operating Instructions (Dutch/Swedish/Spanish/Portuguese)	ARE7172	Not used	
	18	Packing Case	AHD7619	AHD7620	
	20	Operating Instructions (English)	Not used	ARB7153	
	21	Sub Packing	Not used	AHD7618	
⚠	22	Power Cord	Not used	ADG7009	
⚠	23	Fuse (T5A)	Not used	AEK7001	

2.2 EXTERIOR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Refer to
"2.3 TOP PANEL ASSY".
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Refer to
"2.6 CD MECHA ASSY".
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(1) EXTERIOR PARTS LIST

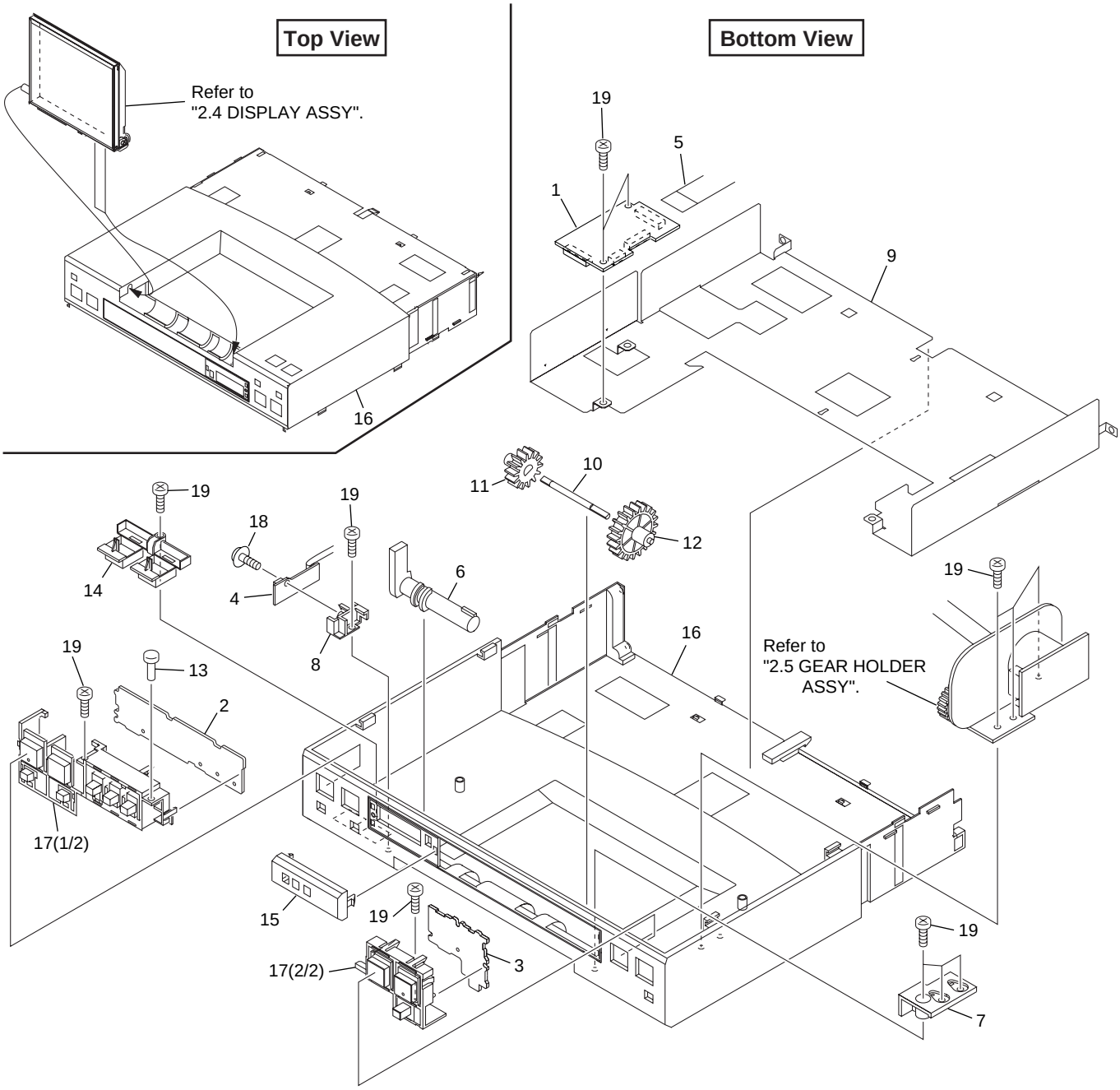
Mark	No.	Description	Part No.
	1	CD MAIN UNIT	AWU7090
	2	CD AMP UNIT	AWU7091
	3	CD TRANS UNIT	AWU7092
	4	CD HP UNIT	AWU7093
	5	CD REG UNIT	AWU7121
	6	CD RECTIFY UNIT	AWU7128
	7	CD REM UNIT	AWU7130
	8	CD POWER UNIT	AWU7153
	9	FM/AM TUNER MODULE	AXQ7077
	10	16P F•F•C/30V	ADD7096
⚠	11	Fuse FU1 (T800mA)	AEK1053
⚠	12	Power Transformer (T1)	ATS7218
⚠	13	DC Fan Motor	AXM7003
	14	Connector CN 5P	AKP7040
	15	Connector CN 6P	AKP7041
	16	CD MECHA Assy	KSL-2130CCM
	17	Leg	AEB7090
	18	F Cushion	AEB7127
	19	Center Barrier	AEC7140
	20	Top Barrier	AEC7154
	21	Rear Panel	See Contrast table (2)
NSP	22	Bottom Plate	ANF7010
	23	Angle	ANG7189
NSP	24	Heat Sink	ANH7088
NSP	25	Cord With Plug J	DE005VF0
NSP	26	Spacer	PNM1135
	27	Cord Clamper	RNH-184
	28	Tray Panel CD	AAN7184
	29	Lens	AAX7639
	30	Bottom Base	AMA7005
	31	Bonnet	AMA7007
	32	Rear Case	AMR7207
NSP	33	Caution Label	See Contrast table (2)
	34	Name Label	ARW7043
	35	Screw	BBZ30P060FMC
	36	Screw	BBZ30P140FMC
	37	Screw	BBZ40P060FMC
	38	Screw	BPZ30P060FZK
	39	Screw	BPZ30P100FZK
	40	Screw	BPZ30P300FMC
	41	Screw	PDZ30P060FMC
	42	Cushion Rubber	AEB7068
	43	Rivet	VEC1178

(2) CONTRAST TABLE

MYXK and NVXK type are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			MYXK type	NVXK type	
	21	Rear Panel	ANC7672	ANC7673	
NSP	33	Caution Label	ARW1047	ARW1050	

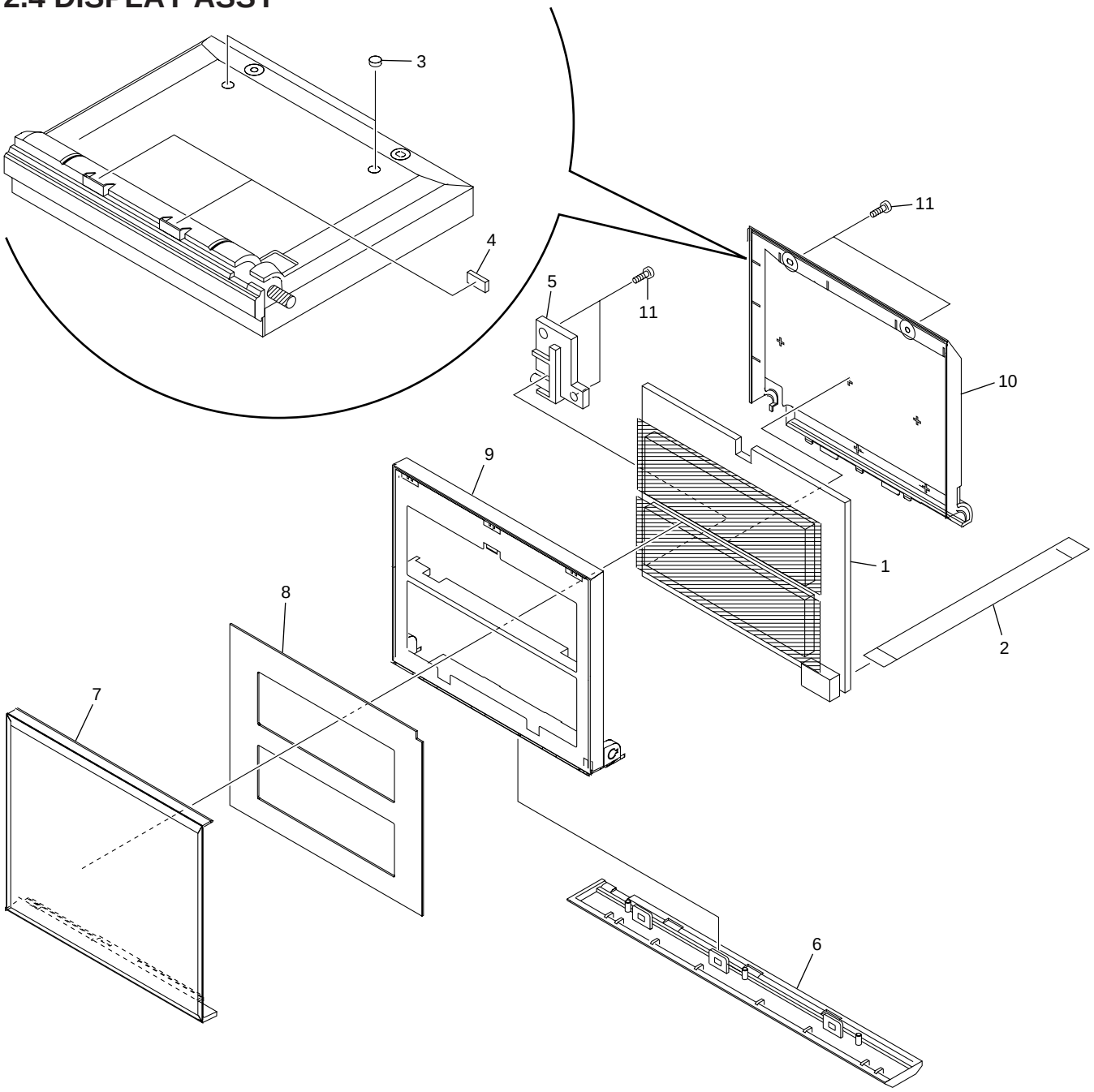
2.3 TOP PANEL ASSY



● TOP PANEL ASSY PARTS LIST

Mark	No.	Description	Part No.
	1	CD TRADE UNIT	AWU7095
	2	CD KEYR UNIT	AWU7096
	3	CD KEYL UNIT	AWU7097
	4	CD POSIT UNIT	AWU7100
	5	17P F•F•C/60V	ADD7098
	6	Pin	AMR7208
	7	Holder L	AMR7209
	8	Holder R	AMR7210
NSP	9	Top Plate	ANK7042
	10	Shaft	ANL7010
	11	Gear S	ANW7120
	12	Gear B	ANW7121
	13	Rivet	VEC1178
	14	Top Button	AAD7476
	15	Sub Panel	AAP7048
	16	Top Panel	AMB7513
	17	Button A Assy	AWL7036
	18	Screw	IPZ20P060FMC
	19	Screw	VPZ30P080FZK

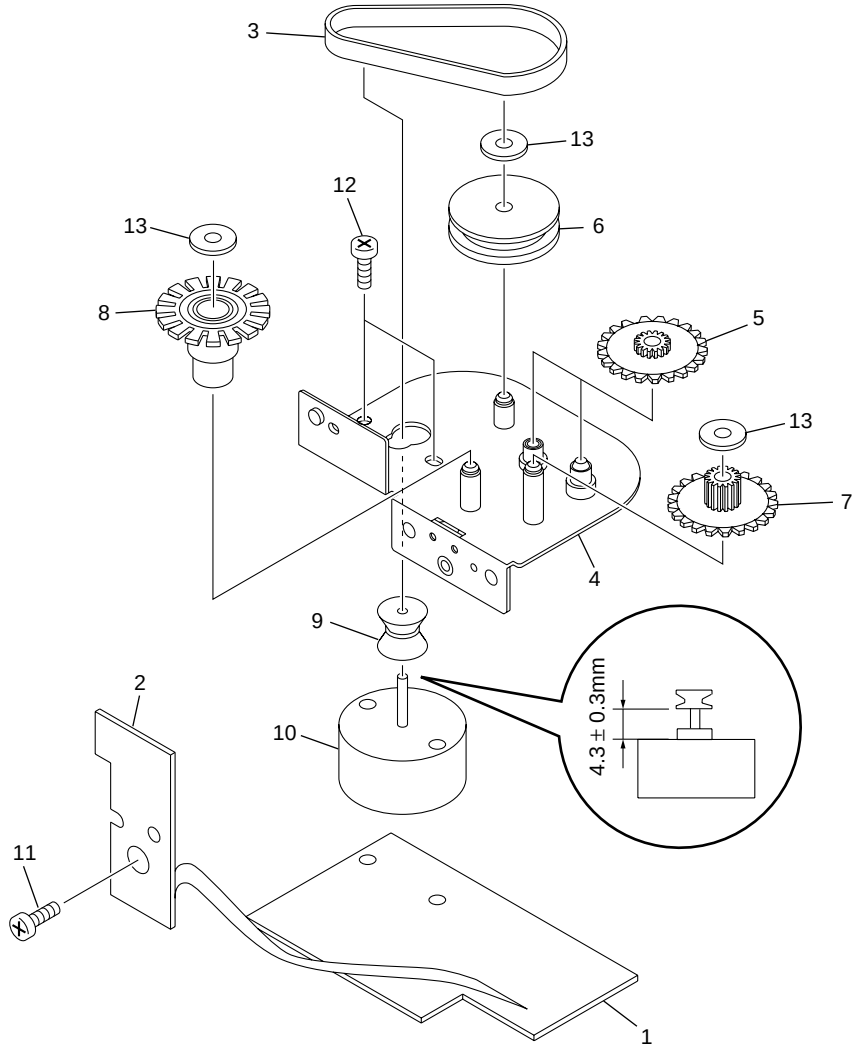
2.4 DISPLAY ASSY



● DISPLAY ASSY PARTS LIST

Mark	No.	Description	Part No.
	1	CD FL UNIT	AWU7094
	2	8P F•F•C/60V	ADD7099
	3	Cushion Rubber	AEB7068
	4	D Cushion	AEB7126
	5	Rack Gear	ANW7123
	6	Front Plate	AAH7012
	7	Window	AAK7575
	8	FL Filter	AEC7141
	9	Display Panel	AMB7517
	10	Display Cover	AMC7026
	11	Screw	VPZ30P080FZK

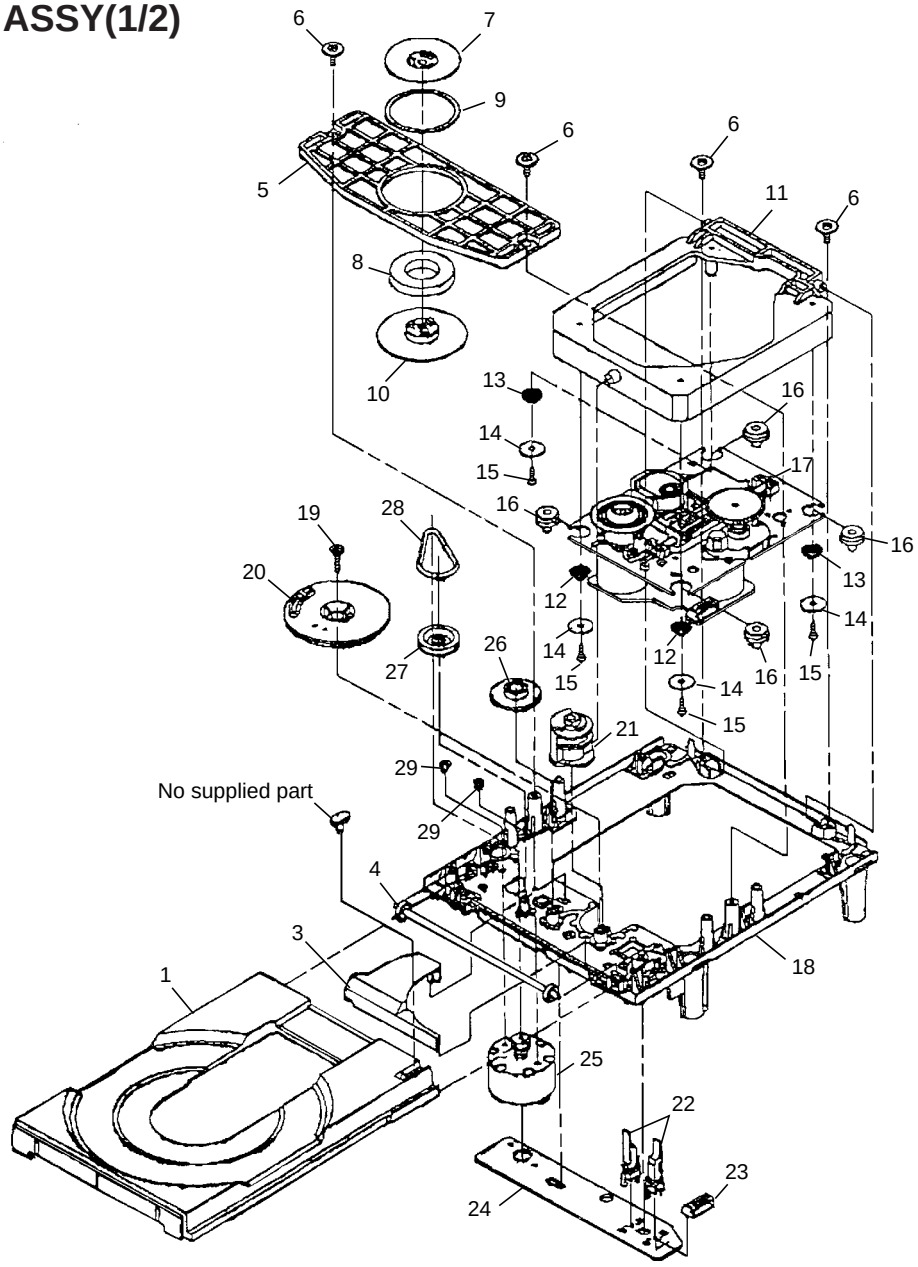
2.5 GEAR HOLDER ASSY



● GEAR HOLDER ASSY PARTS LIST

Mark	No.	Description	Part No.
	1	CD MOTOR UNIT	AWU7098
	2	CD SENSE UNIT	AWU7099
	3	Belt	AEB7030
	4	Gear Holder	ANG7190
	5	Gear A	ANW7063
	6	Gear Pulley A	ANW7066
	7	Select Gear	ANW7067
	8	FC Gear	ANW7122
	9	Motor Pulley	PNW1634
	10	DC Motor/0.75W	PXM1010
	11	Screw	BBZ30P060FMC
	12	Screw	PMA26P040FMC
	13	Washer	WT36D072D025

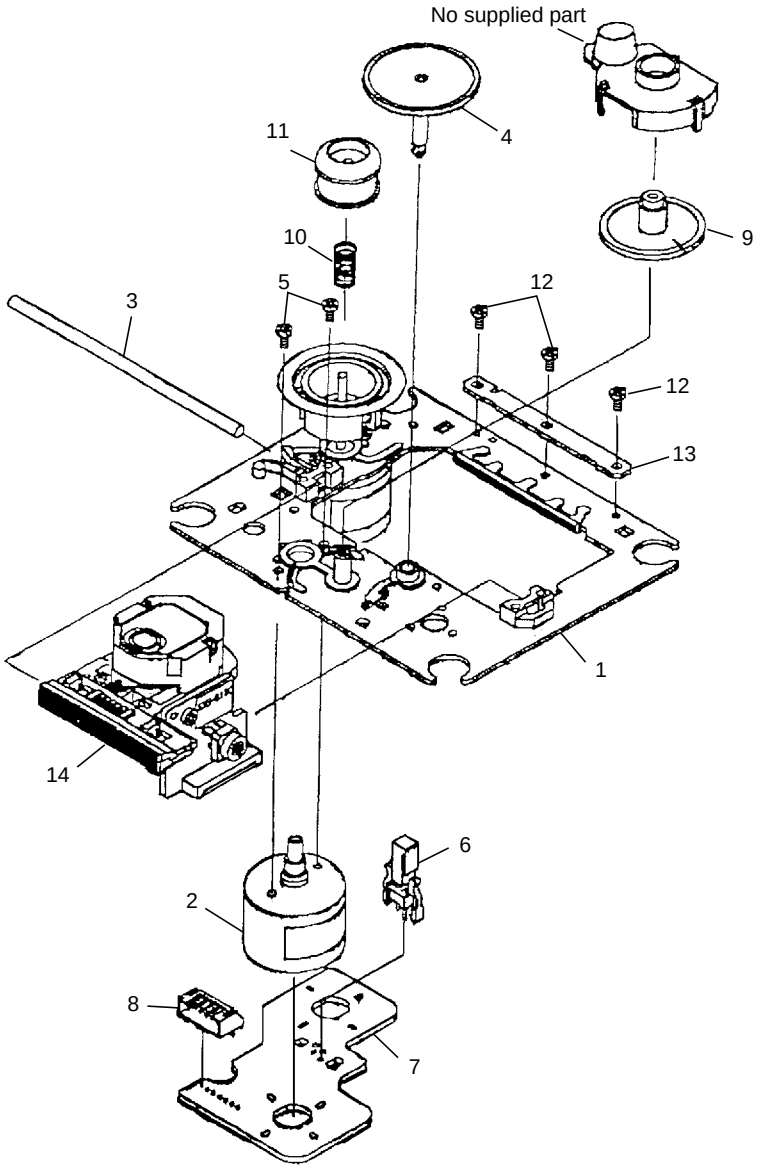
2.6 CD MECHA ASSY(1/2)



● CD MECHA ASSY(1/2) PARTS LIST

Mark	No.	Description	Part No.
	1	Tray(C)	2-646-290-01
	2	• • • • •	
	3	Cover(S),Gear	2-625-544-(01)
	4	Gear(S),Tray	2-625-535-(01)
	5	Plate(S),Chucking	2-625-546-(01)
	6	Screw +PTPWH2.6*7	2-626-294-(01)
	7	Chucking Yoke(S)	2-625-537-(01)
	8	Magnet	1-452-493-(21)
	9	Damper(S)	2-625-541-(02)
	10	Chucking Pully	2-646-291-(01)
	11	Sub Chassis 2130	2-646-288-(01)
	12	Coil Spring (Front)	2-627-236-(01)
	13	Coil Spring (Back)	2-627-235-(01)
	14	Washer 2130	2-646-289-(01)
	15	Screw+P2.6*10 NOSLIT	7-685-135-(11)
	16	Insulator	2-627-234-(01)
	17	MD Assy	A-4912-186-A
	18	Outsert Main Chassis	2-625-552-(06)
	19	Screw +PTPWH2.6*16	3-319-501-(51)
	20	Drive Gear (S)	2-625-547-(01)
	21	Control Cam(S)	2-625-545-(04)
	22	Leaf Switch	1-692-667-(11)
	23	Connector Pin 5p	1-564-721-(11)
	24	Loading PC Board	1-640-523-(11)
	25	Loading Motor Assy	X-2625-117-(1)
	26	Midway Gear (S)	2-625-534-(02)
	27	Loading Pulley (S)	2-625-536-(02)
	28	LM Berut	3-653-387-(00)
	29	Screw +B2.6*2.5	2-625-279-(01)

2.7 CD MECHA ASSY(2/2)

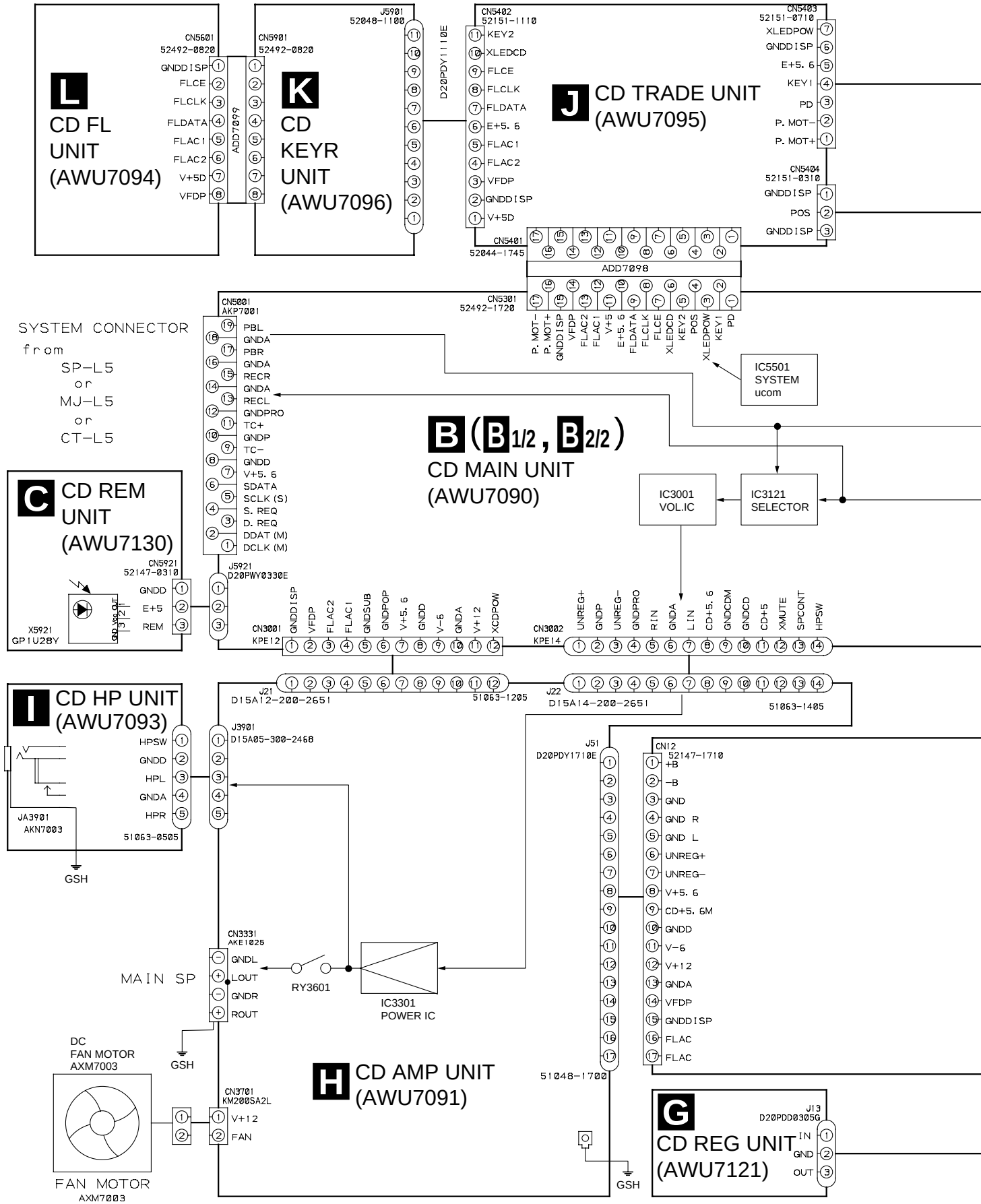


● CD MECHA ASSY(2/2) PARTS LIST

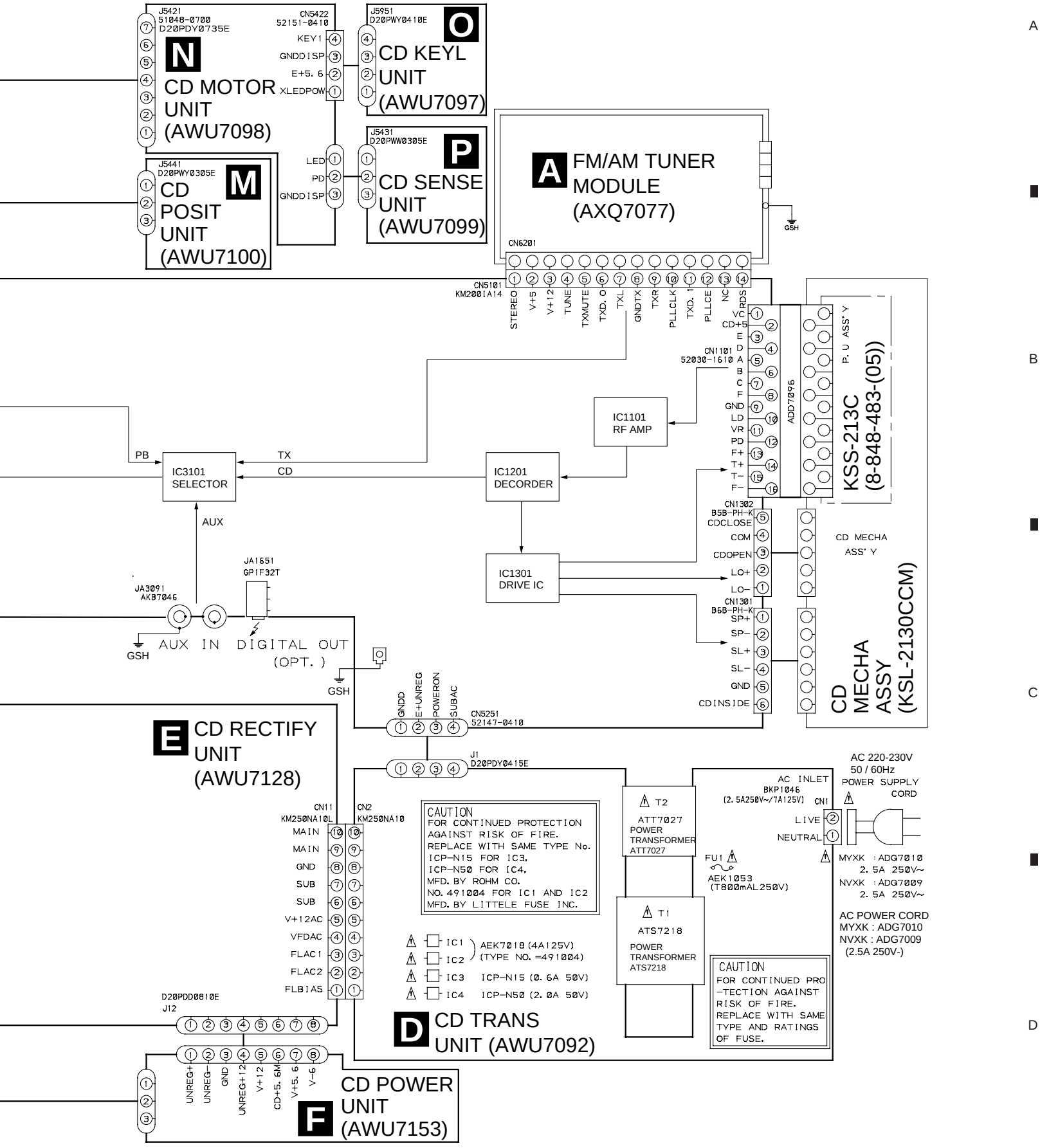
Mark	No.	Description	Part No.
	1	Motor Chassis Assy	X-2625-984-(1)
	2	Motor Gear Assy	X-2625-769-(1)
	3	Sled Shaft	2-626-908-(01)
	4	Gear (A)(S)	2-625-188-(02)
	5	Screw +P2*3	7-621-255-(15)
	6	Leaf Switch	1-572-085-(11)
	7	Motor(6p)(S)PCB	1-639-678-(12)
	8	Connector Pin 6p	1-564-722-(11)
	9	Gear(B)(RP)	2-627-003-(01)
	10	Spring(S)Compression	2-625-191-(01)
	11	Ring(LO)(S),Center	2-625-477-(01)
	12	Screw2*5,Tapping(S)	2-641-386-(01)
	13	Reinforcement(S)	2-625-625-(01)
	14	KSS-213C(Pic-up)	8-848-483-(05)

3. SCHEMATIC DIAGRAM

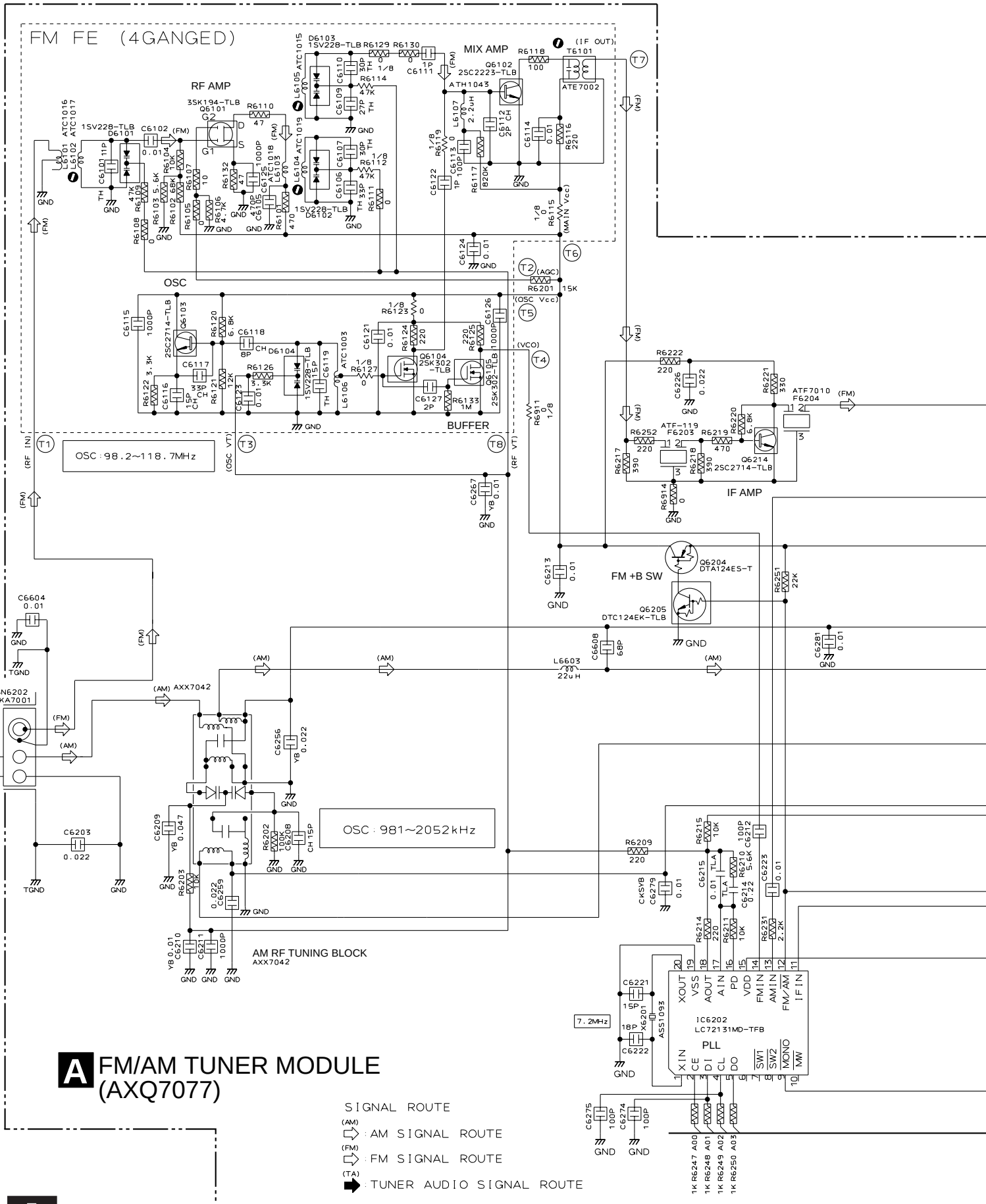
3.1 OVERALL CONNECTION DIAGRAM



Note : When ordering service parts, be sure to refer to
"EXPLODED VIEWS AND PARTS LIST" or "PCB PARTS LIST".

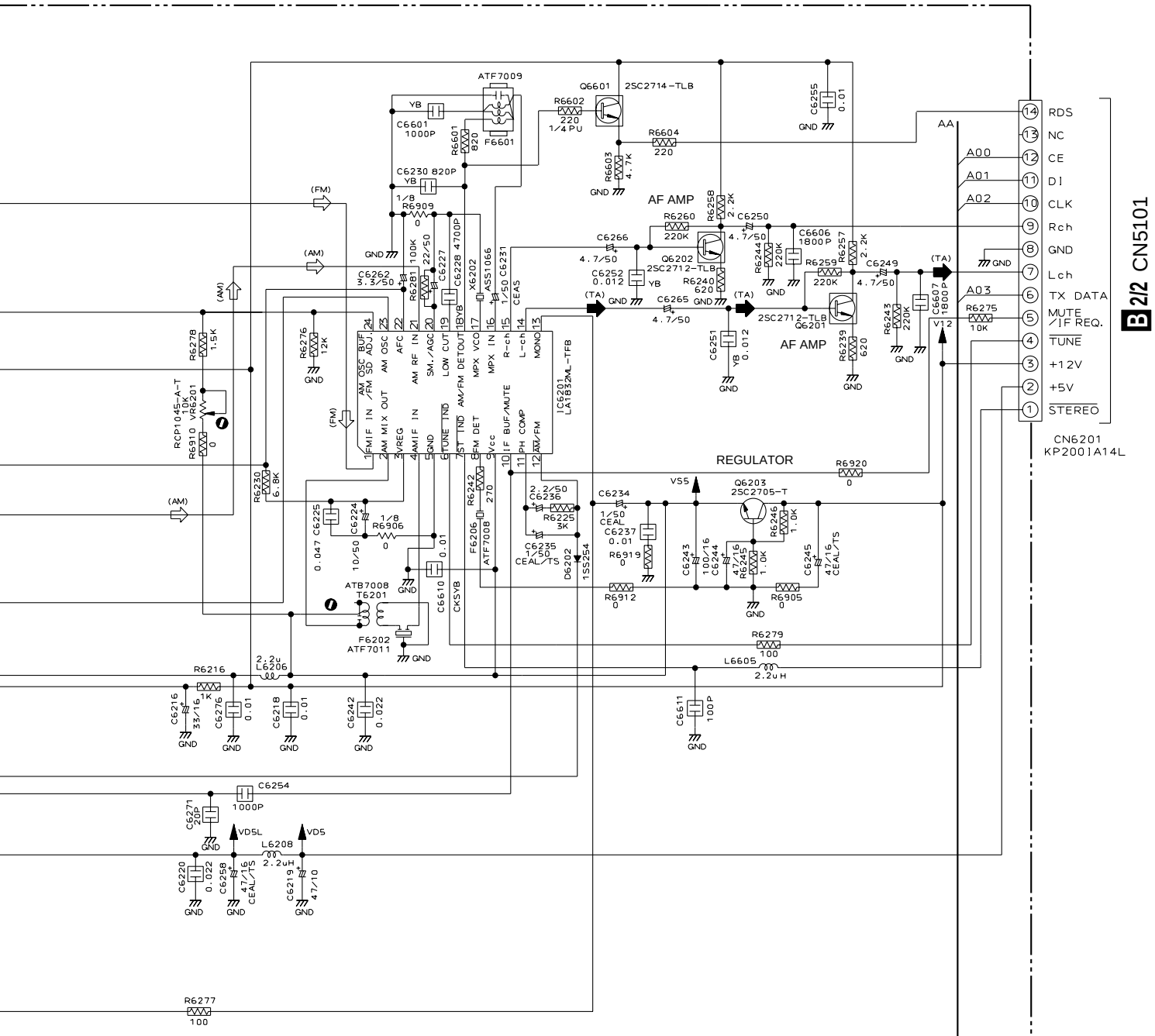

N
CD MOTOR UNIT (AWU7098)
O
CD KEYL UNIT (AWU7097)
P
CD SENSE UNIT (AWU7099)
M
CD POSIT UNIT (AWU7100)
A
FM/AM TUNER MODULE (AXQ7077)
IC1101 RF AMP
IC3101 SELECTOR
IC1201 DECORDER
IC1301 DRIVE IC
ADD7096
KSS-213C (8-848-483-(05))
CD MECHA ASS' Y
CD MECHA ASSY (KSL-2130CCM)
AUX IN
DIGITAL OUT (OPT.)
E
CD RECTIFY UNIT (AWU7128)
D
CD TRANS UNIT (AWU7092)
F
CD POWER UNIT (AWU7153)
CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE No. ICP-N15 FOR IC3, ICP-N50 FOR IC4, MFD. BY ROHM CO. NO. 491004 FOR IC1 AND IC2 MFD. BY LITTELE FUSE INC.
AEK7018 (4A125V)
(TYPE NO. =491004)
ICP-N15 (0.6A 50V)
ICP-N50 (2.0A 50V)
ATT7027 POWER TRANSFORMER ATT7027
ATS7218 POWER TRANSFORMER ATS7218
AC INLET BKP1046 (2.5A250V~/7A125V)
AC 220-230V 50 / 60Hz POWER SUPPLY CORD
MYXK : ADG7010 2.5A 250V~
NVXK : ADG7009 2.5A 250V~
AC POWER CORD MYXK : ADG7010 NVXK : ADG7009 (2.5A 250V-)
CAUTION
FOR CONTINUED PRO-TECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

3.2 FM/AM TUNER MODULE

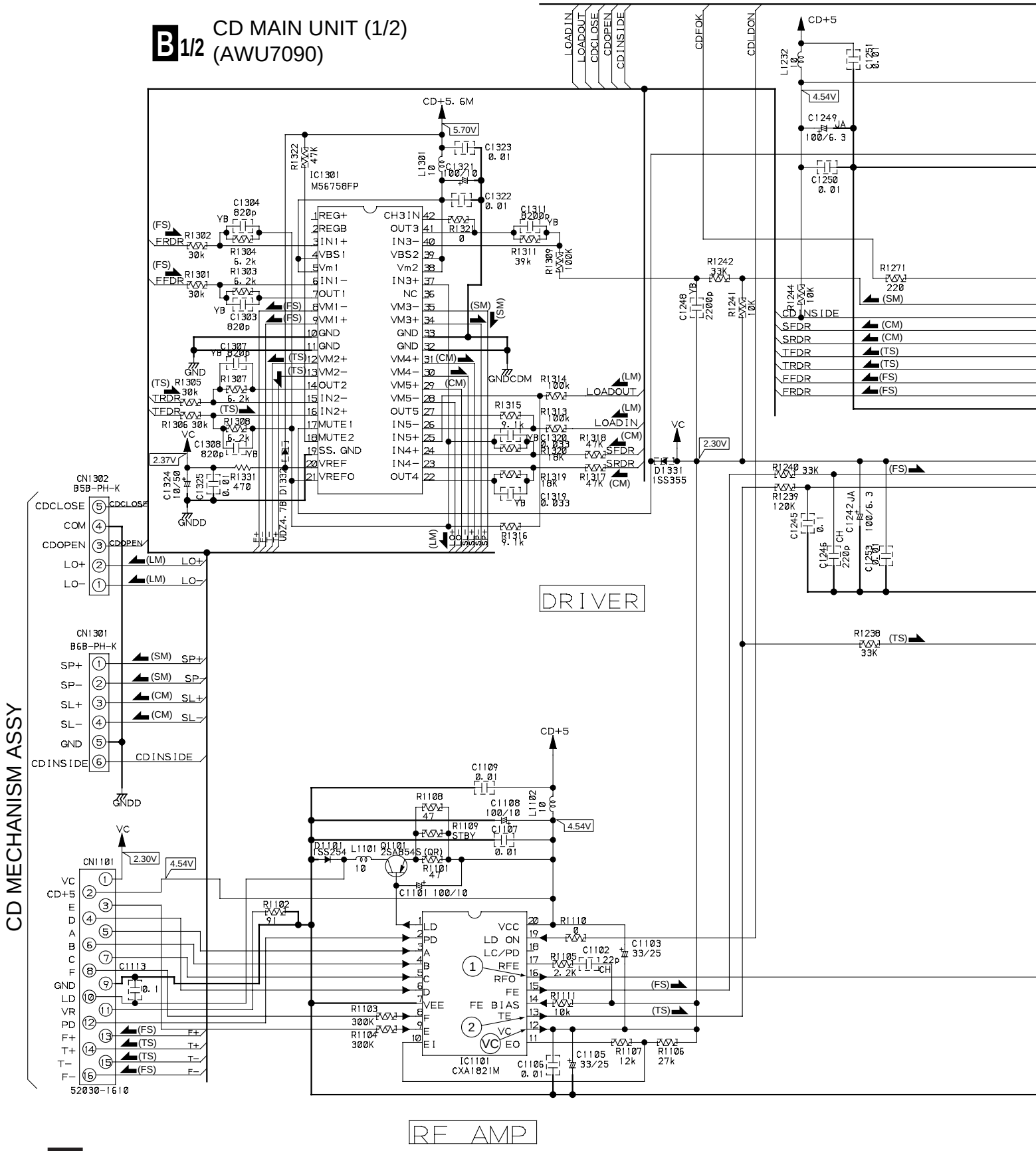


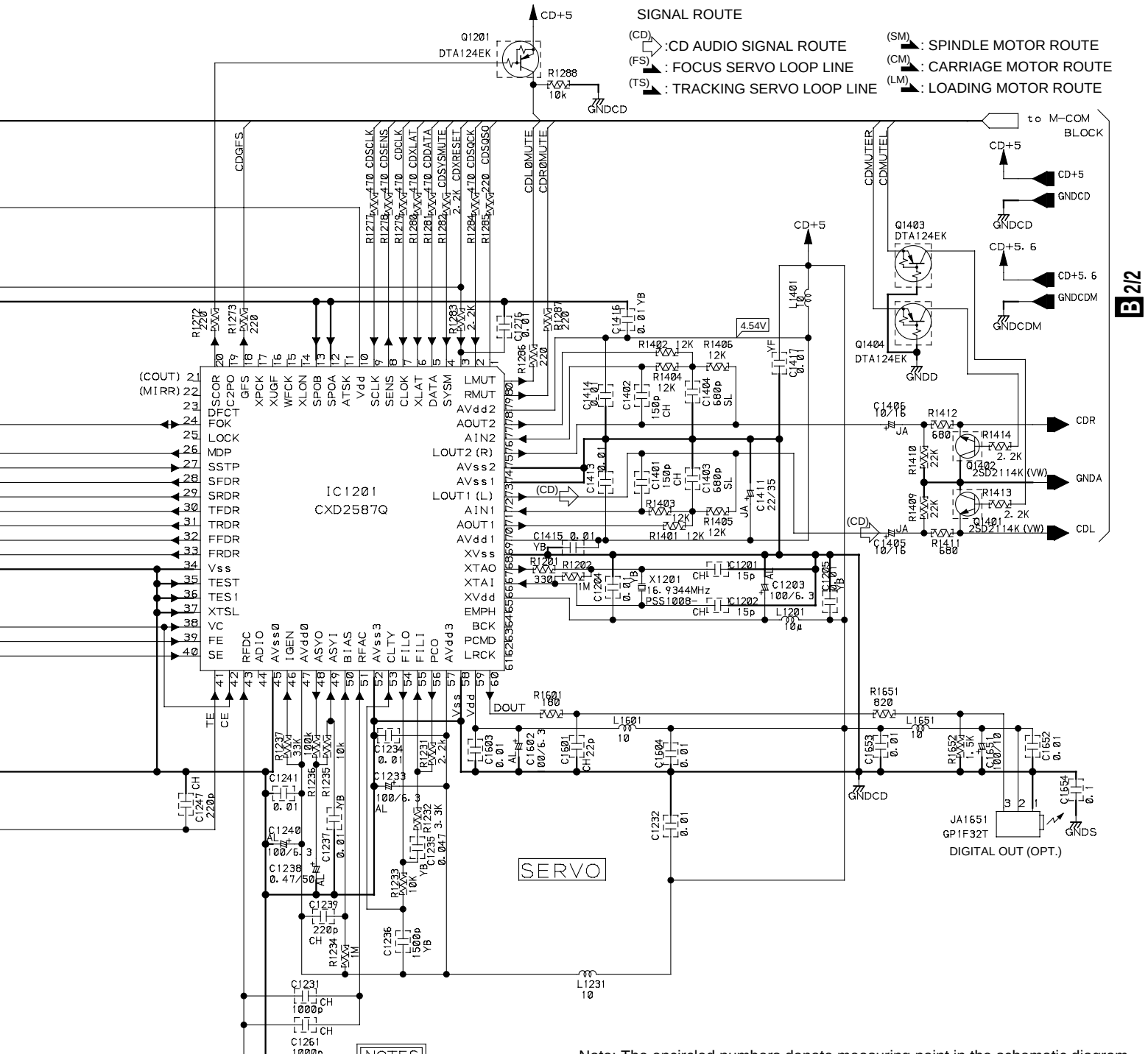
Notes

1. RESISTORS
   Indicated in Ω, 1/10W±5% Tolerance unless otherwise noted K:KΩ, M:MΩ.
2. CAPACITORS
   Indicated in Capacity(μF)/VOLTAGE(V) unless otherwise noted P:PF.
3. DIODES
   No mark diode is 1SS254.



3.3 CD MAIN UNIT(1/2)





NOTES

ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED

TL : CFTLA
M : CQMA

CH : CCSQCH
YB : CKSQYB
SL : CCSQSL
(OTHER : CKSQYF)

AL : CEAL
JA : CEJA
(OTHER : CEAT***M##)

ALL RESISTORS ARE IN Ω

1/10W (CHIP)
1/4WPU

ALL INDUCTORS ARE IN μH

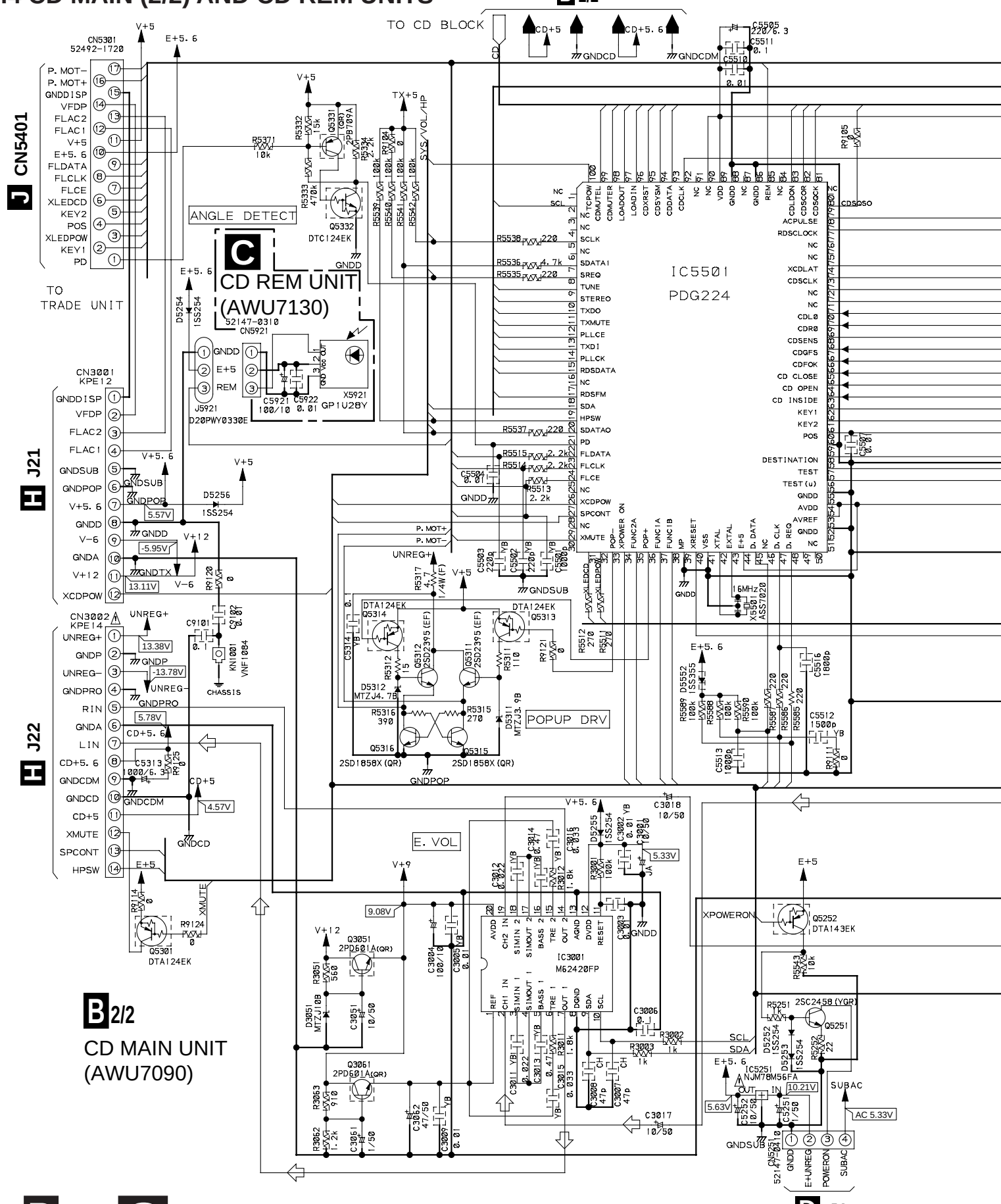
LAU

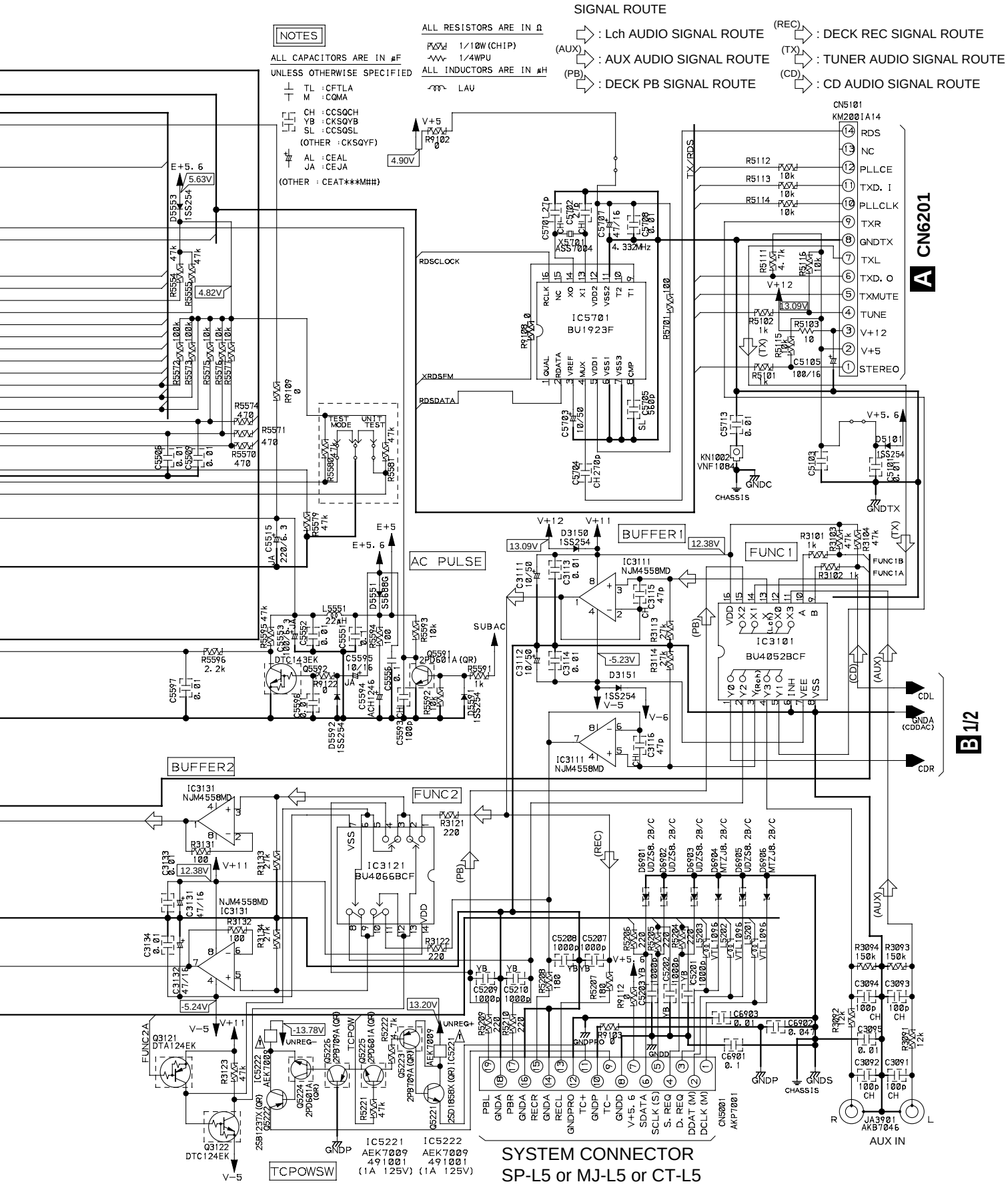
Note: The encircled numbers denote measuring point in the schematic diagram.

① IC1101- Pin 16: PLAY MODE (RF)	② IC1101- Pin 13 : TEST MODE, Tracking Open (TRER)
H : 500nsec/div	H : 5msec/div
1.2Vp-p, VC	3.5Vp-p, VC

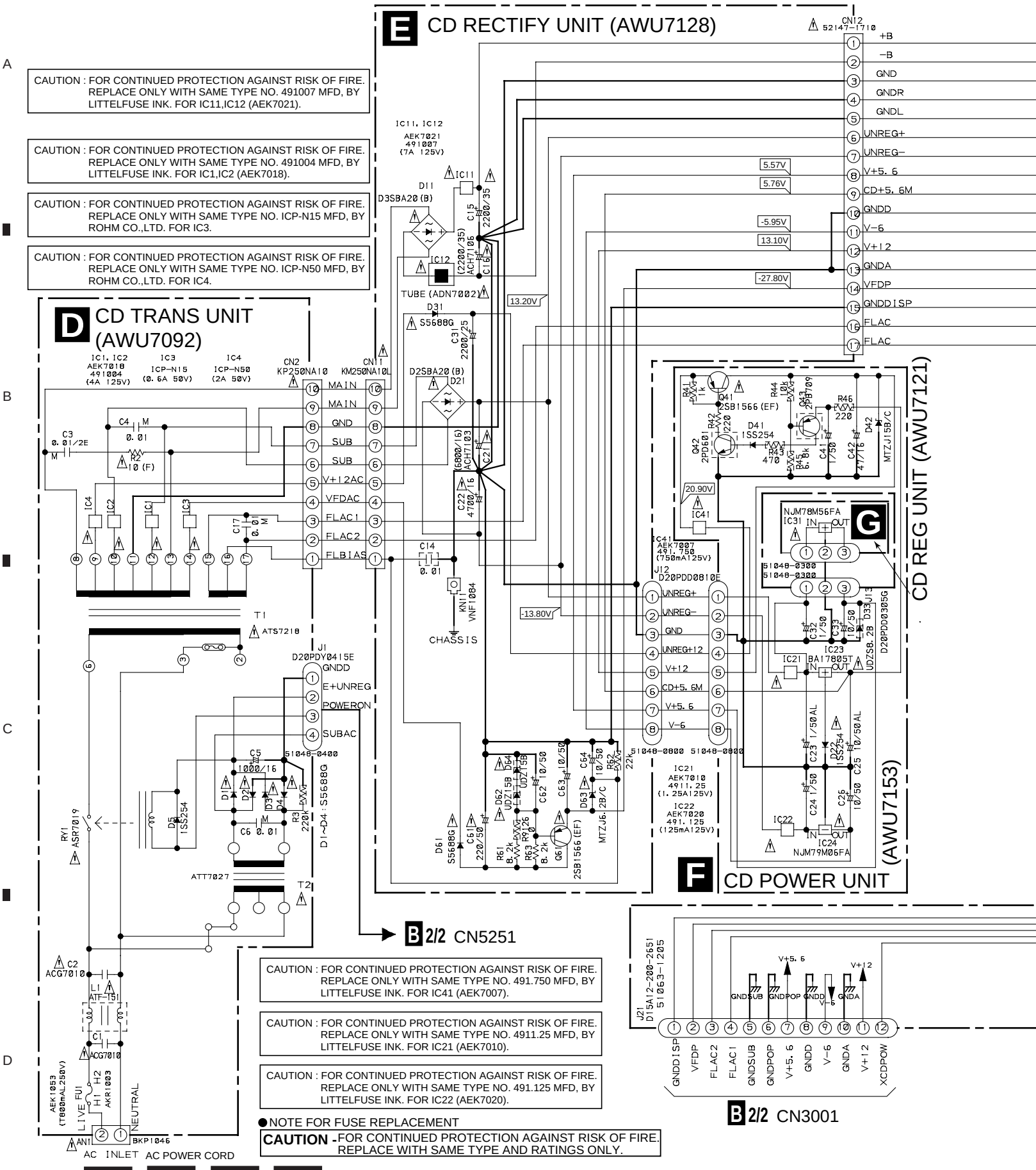
VC : IC1101- Pin12

3.4 CD MAIN (2/2) AND CD REM UNITS

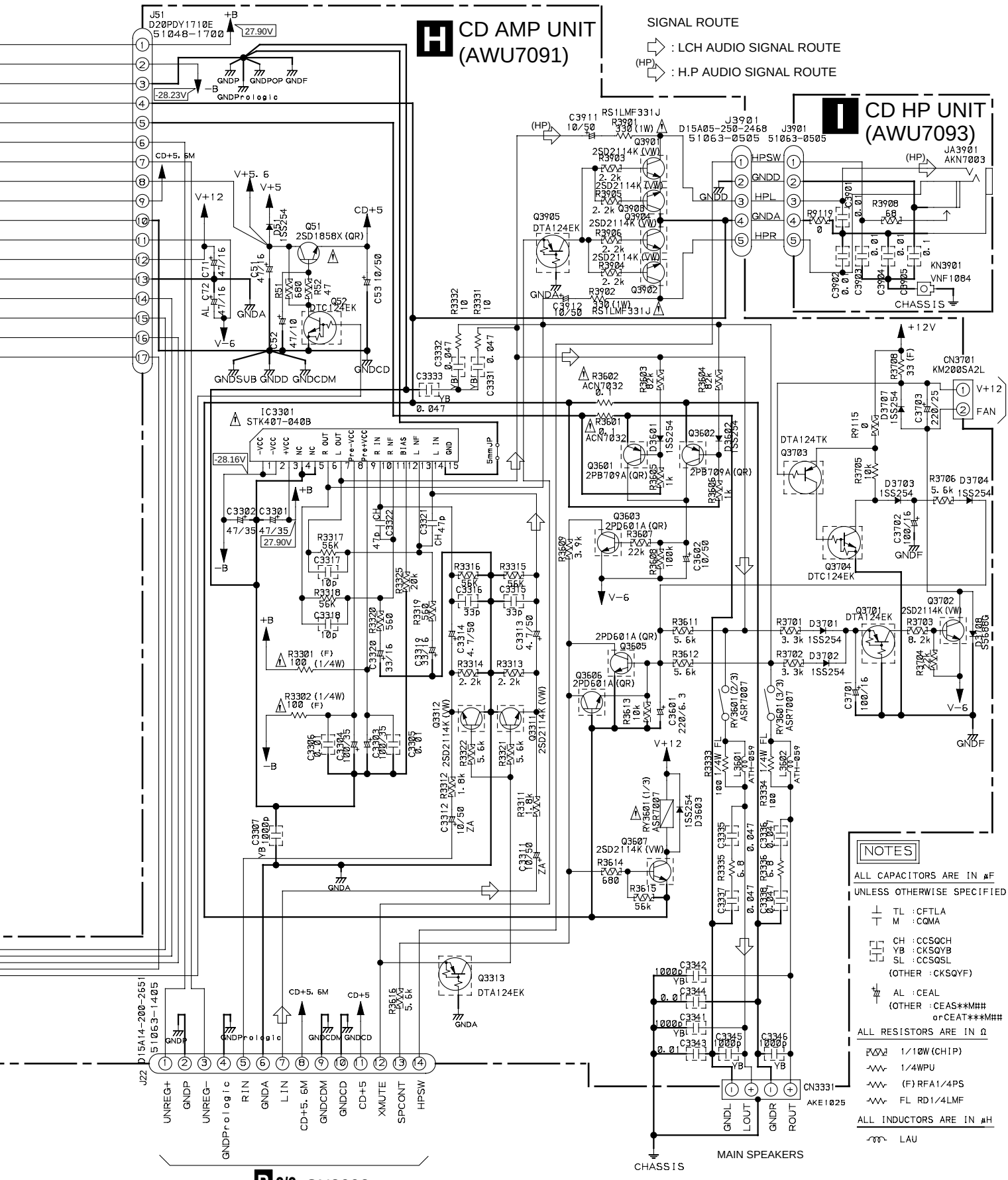



SIGNAL ROUTE
NOTES
ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE IN Ω
1/10W(CHIP)
1/4WPU
ALL INDUCTORS ARE IN μH
LAU
: Lch AUDIO SIGNAL ROUTE
: AUX AUDIO SIGNAL ROUTE
: DECK PB SIGNAL ROUTE
: DECK REC SIGNAL ROUTE
: TUNER AUDIO SIGNAL ROUTE
: CD AUDIO SIGNAL ROUTE
CN5101
KM200IA14
RDS
NC
PLLCE
TXD. I
PLLCLK
TXR
GNDTX
TXL
TXD. O
TXMUTE
TUNE
V+12
V+5
STEREO
CN6201
IC5701
BU1923F
4.332MHz
RDSCLOCK
XRDSFM
RDSDATA
AC PULSE
BUFFER1
BUFFER2
FUNC1
FUNC2
IC3111
NJM4558MD
IC3101
BU4052BCF
IC3121
BU4066BCF
IC3131
NJM4558MD
CDL
GNDA
(CDDAC)
CDR
SUBAC
SYSTEM CONNECTOR
SP-L5 or MJ-L5 or CT-L5
AUX IN
TCPOWSW
IC5221
AEK7009
491001
(1A 125V)
IC5222
AEK7009
491001
(1A 125V)
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE NO. 491001 MFD, BY
LITTELFUSE INK. FOR IC5221,IC5222 (AEK7009).

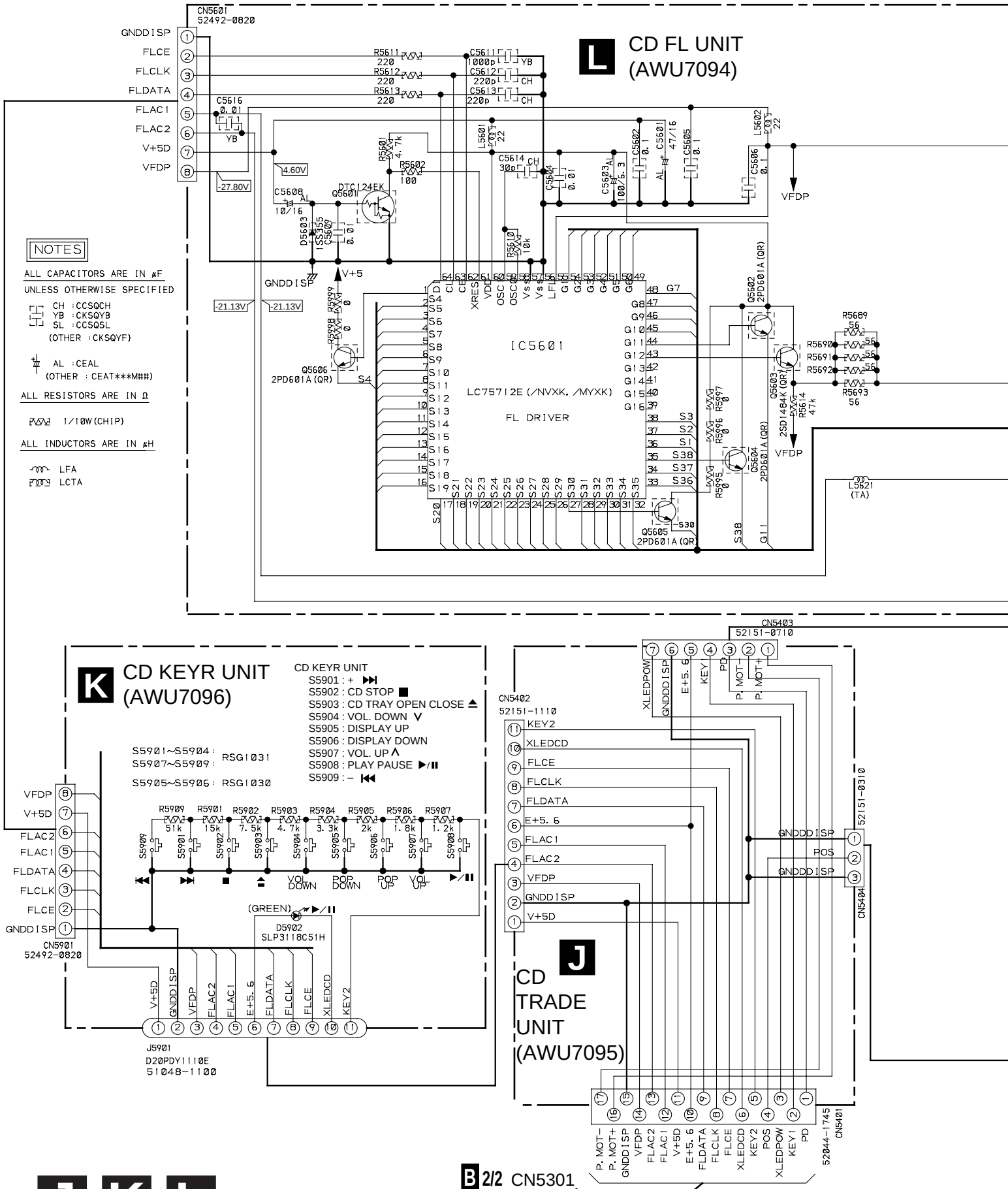
3.5 CD TRANS, CD RECTIFY, CD POWER, CD REG, CD AMP AND CD HP UNITS

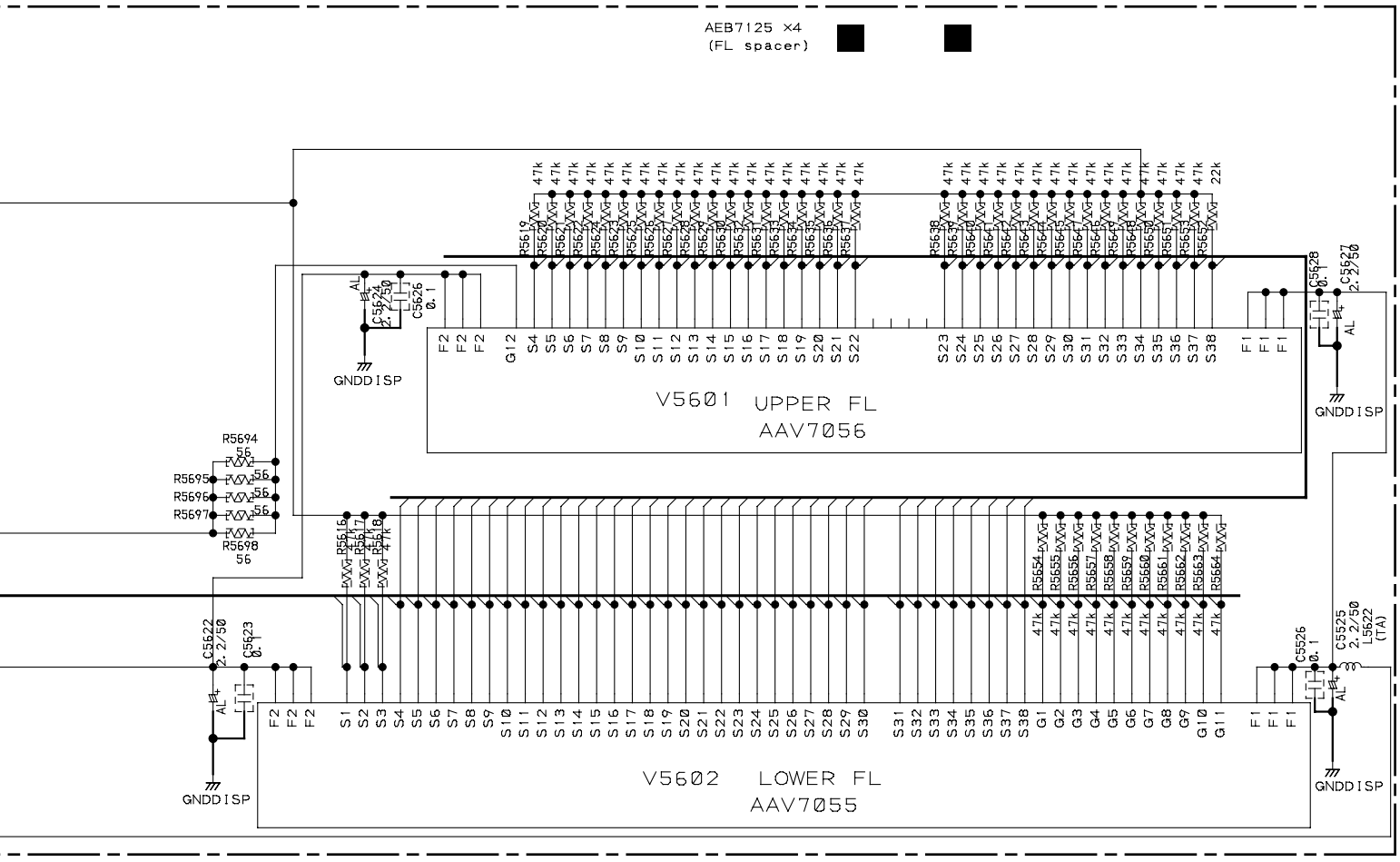


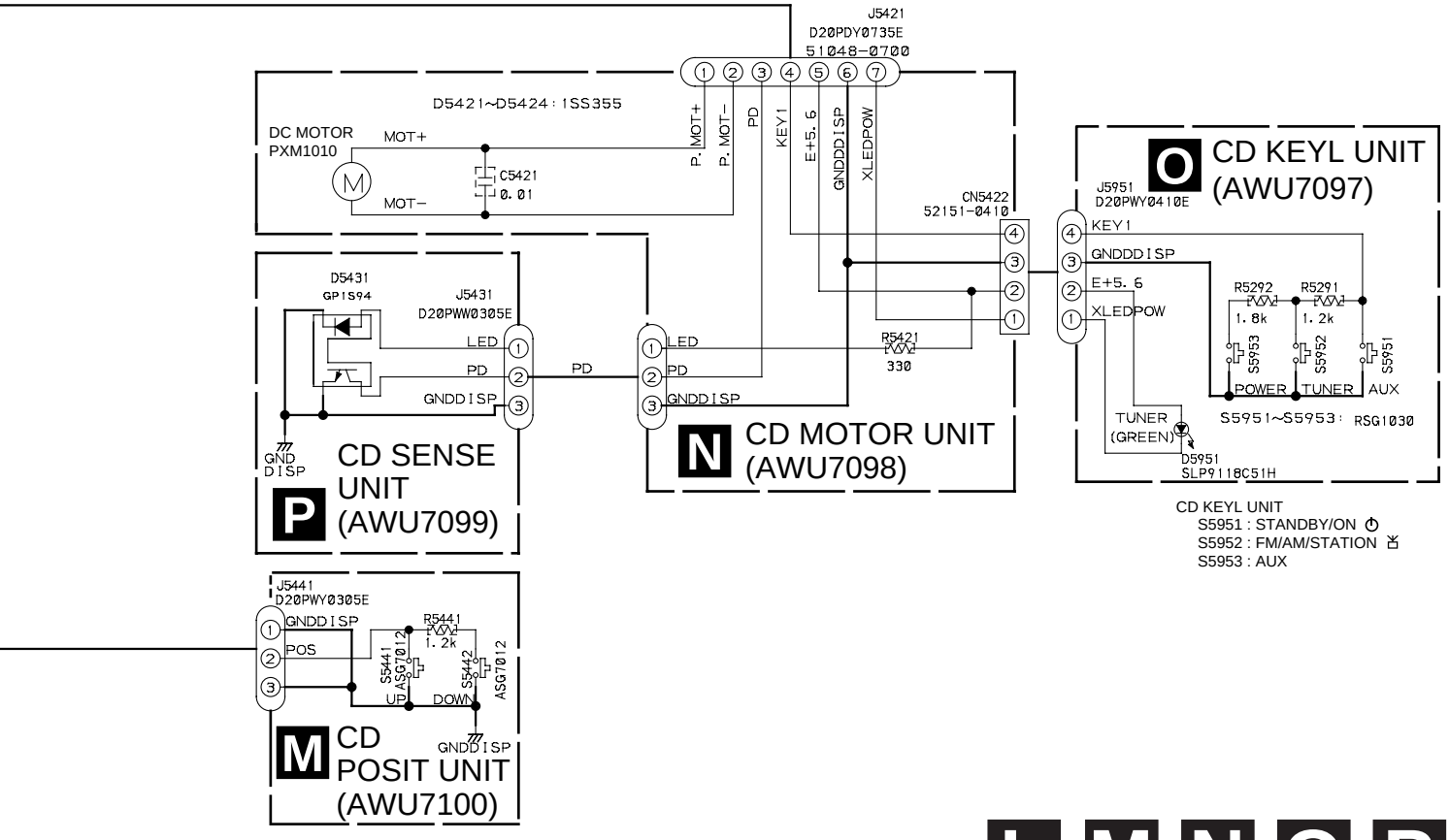
D E F G


H CD AMP UNIT (AWU7091)
I CD HP UNIT (AWU7093)
SIGNAL ROUTE
: LCH AUDIO SIGNAL ROUTE
(HP) : H.P AUDIO SIGNAL ROUTE
FAN MOTOR
MAIN SPEAKERS
CHASSIS
B 2/2 CN3002
NOTES
ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE IN Ω
ALL INDUCTORS ARE IN μH

3.6 CD TRADE, CD KEYR, CD FL, CD POSIT, CD MOTOR, CD KEYL AND CD SENSE UNITS



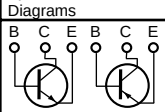
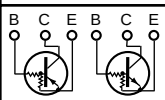
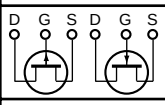
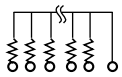

AEB7125 ×4
(FL spacer)
V5601 UPPER FL
AAV7056
V5602 LOWER FL
AAV7055
GNDDISP


J5421
D20PDY0735E
51048-0700
D5421~D5424 : 1SS355
DC MOTOR
PXM1010
MOT+
MOT−
C5421
0.01
P. MOT+
P. MOT−
PD
KEY1
E+5. 6
GNDDDISP
XLEDPOW
CN5422
52151-0410
D5431
GP1S94
J5431
D20PWW0305E
LED
PD
GNDDISP
R5421
330
GND
DISP
CD SENSE
UNIT
(AWU7099)
CD MOTOR UNIT
(AWU7098)
CD KEYL UNIT
(AWU7097)
J5951
D20PWY0410E
KEY1
GNDDDISP
E+5. 6
XLEDPOW
R5292
1. 8k
R5291
1. 2k
S5953
S5952
S5951
POWER
TUNER
AUX
S5951~S5953 : RSG1030
TUNER
(GREEN)
D5951
SLP9118C51H
CD KEYL UNIT
S5951 : STANDBY/ON
S5952 : FM/AM/STATION
S5953 : AUX
J5441
D20PWY0305E
GNDDISP
POS
R5441
1. 2k
S5441
ASG7012
S5442
ASG7012
UP
DOWN
CD
POSIT UNIT
(AWU7100)

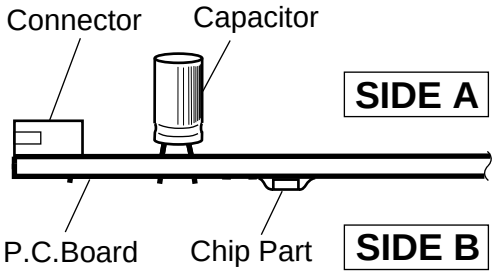
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

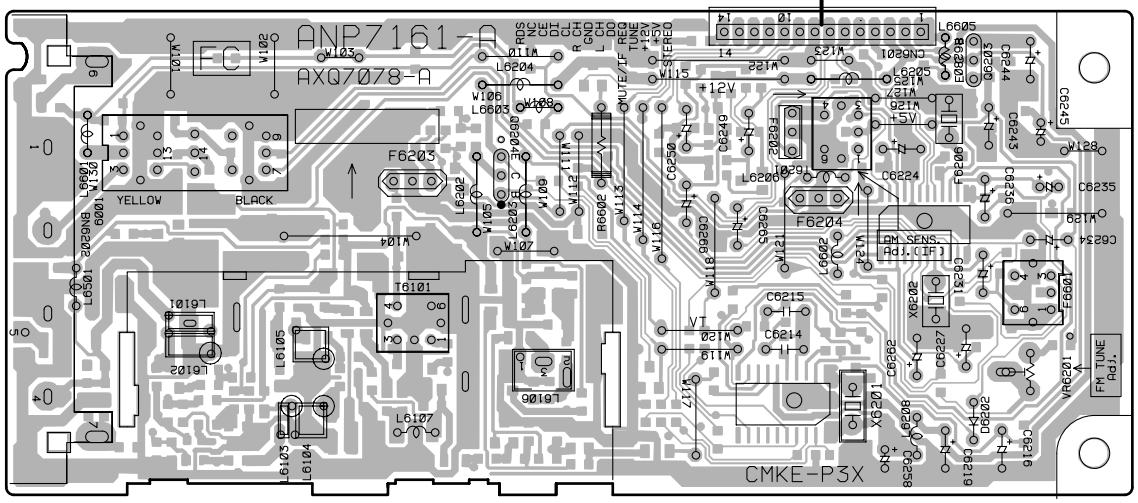
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



4.1 FM/AM TUNER MODULE

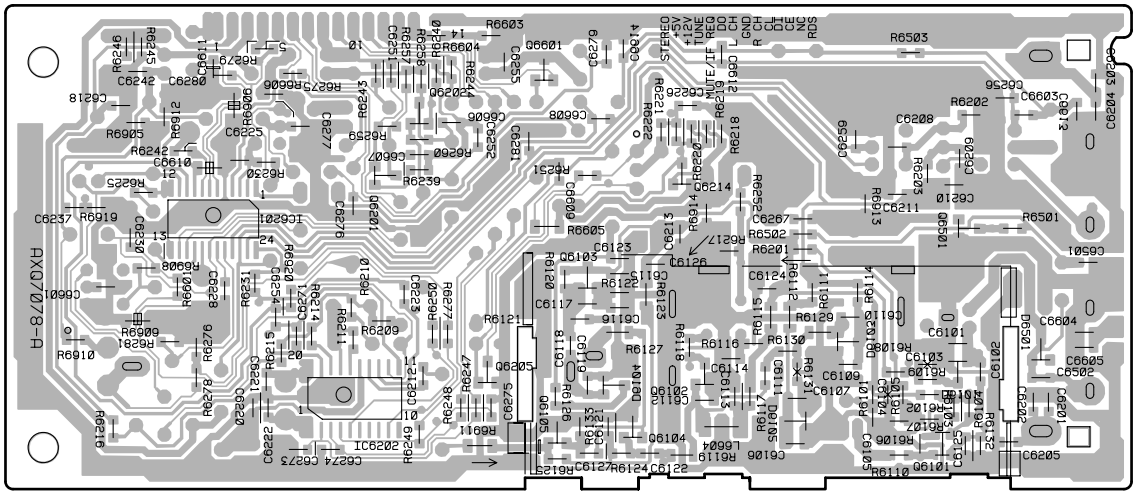
A FM/AM TUNER MODULE

B CN5101



SIDE A

A FM/AM TUNER MODULE

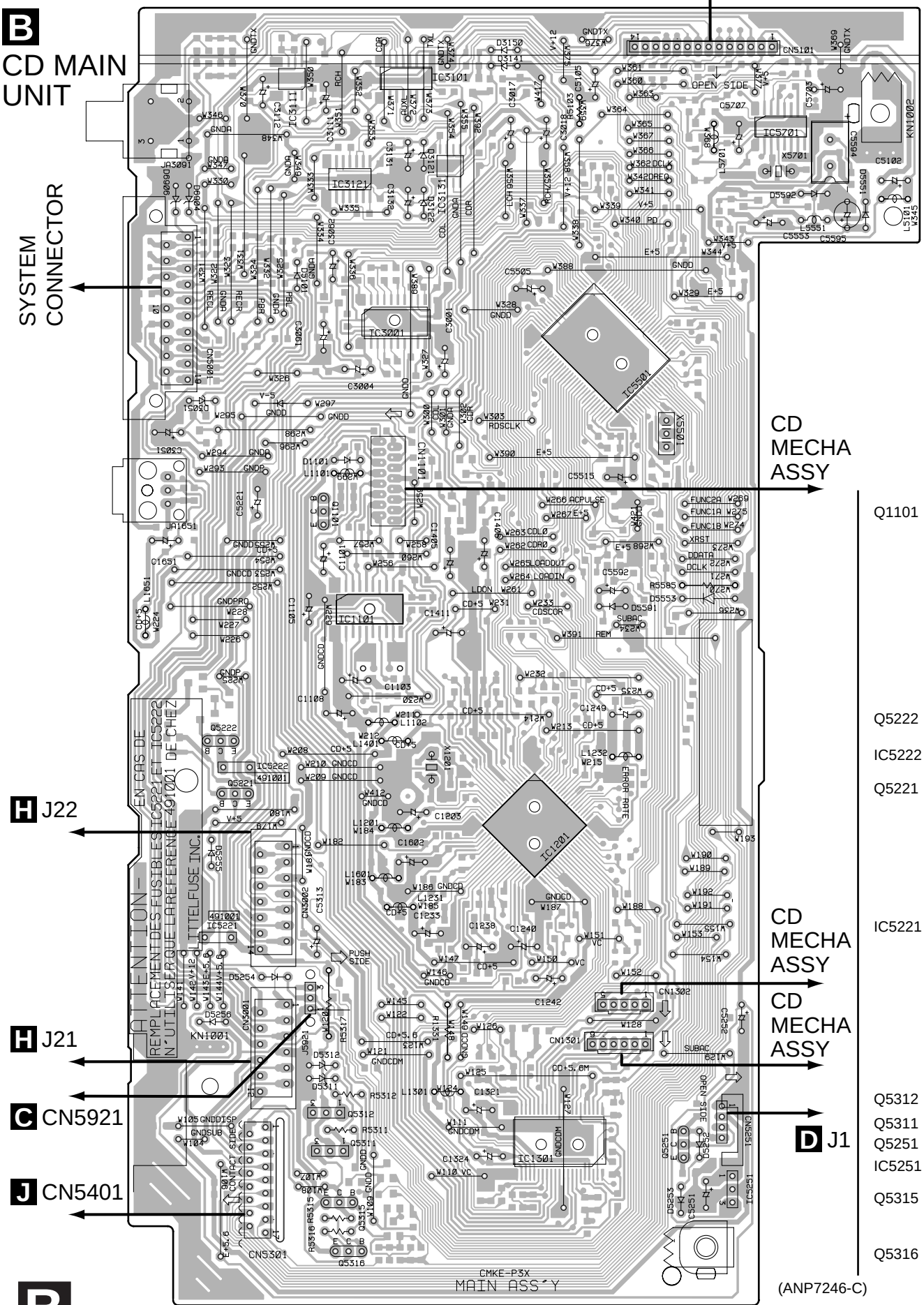


SIDE B

(ANP7161-A)

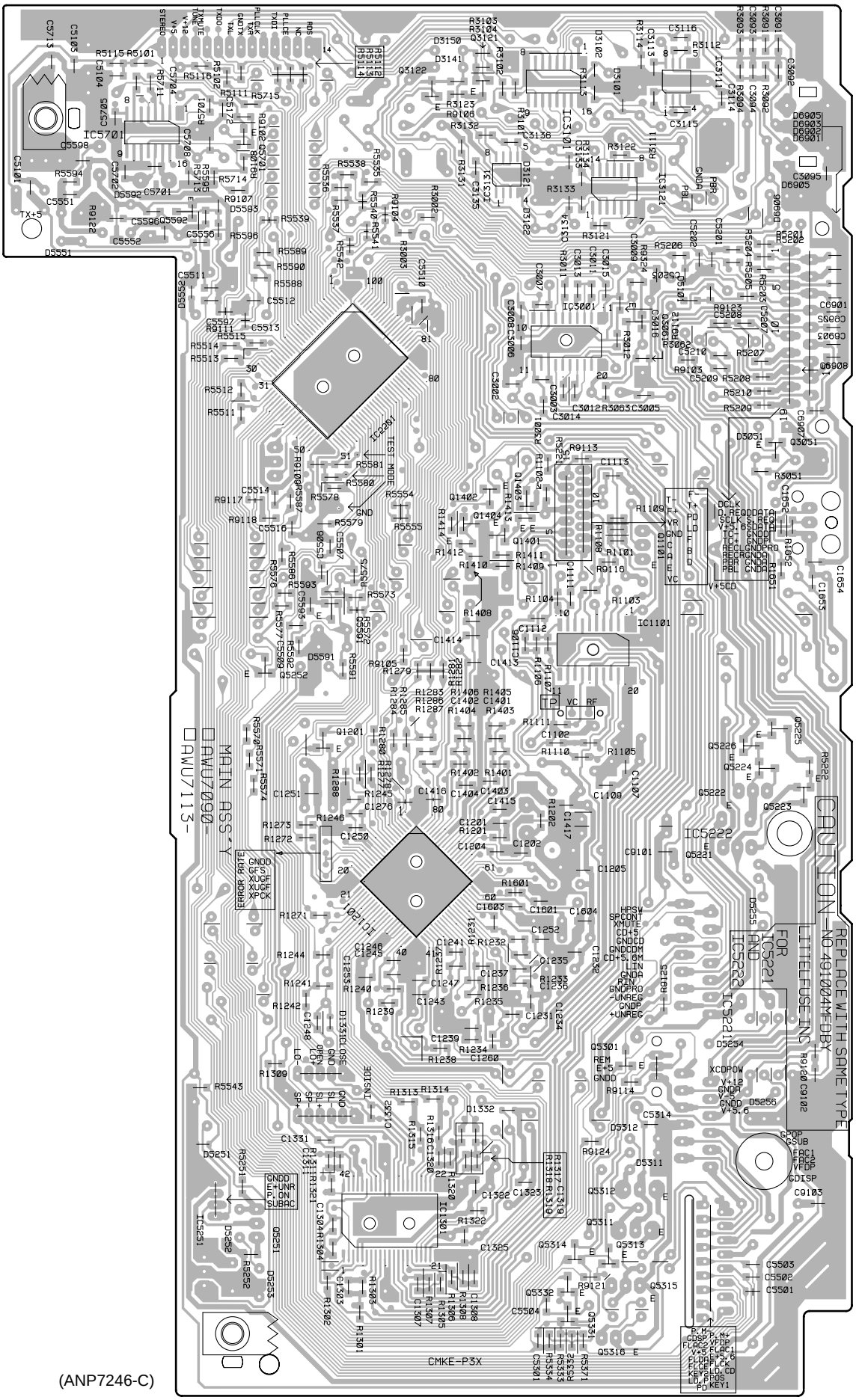
4.2 CD MAIN UNIT

SIDE A



B CD MAIN UNIT

SIDE B

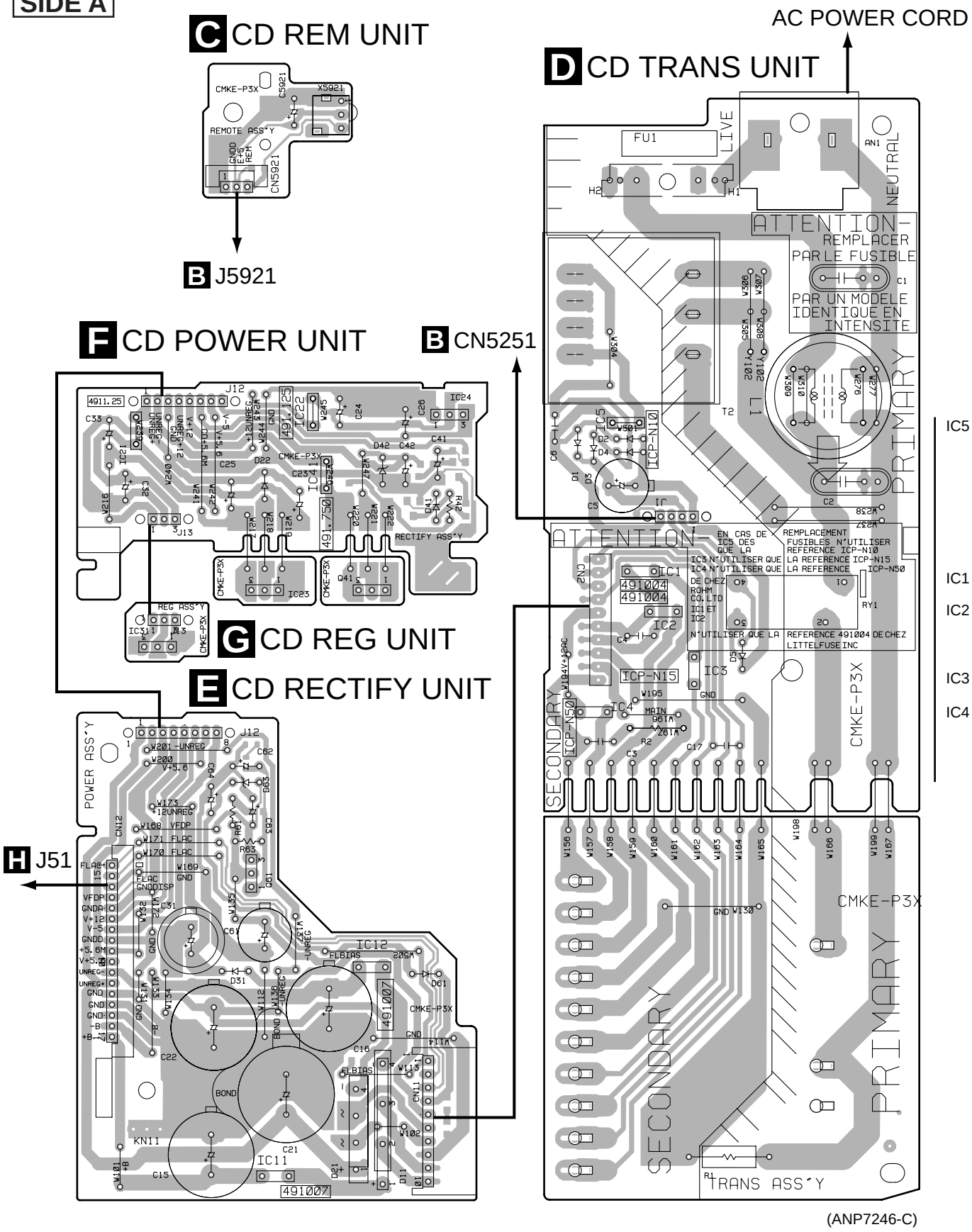


A
B
C
D

(ANP7246-C)

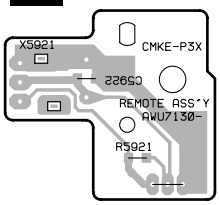
4.3 CD REM, CD TRANS, CD RECTIFY, CD POWER AND CD REG UNITS

SIDE A

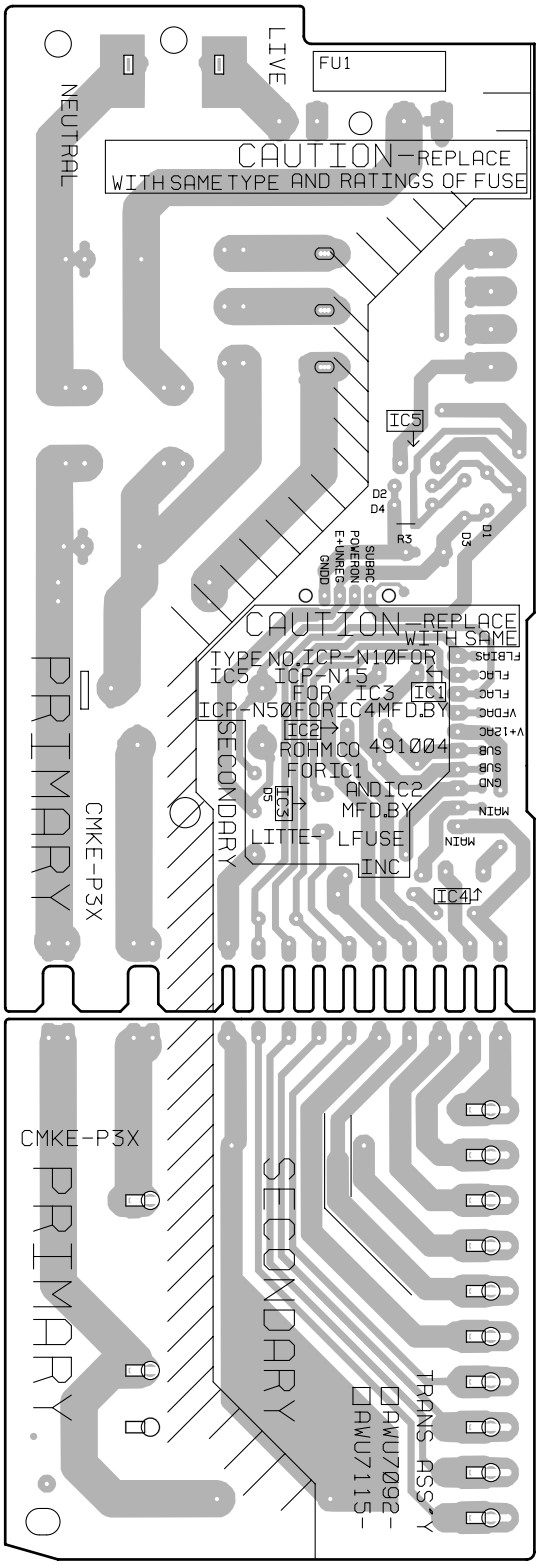


SIDE B

C CD REM UNIT

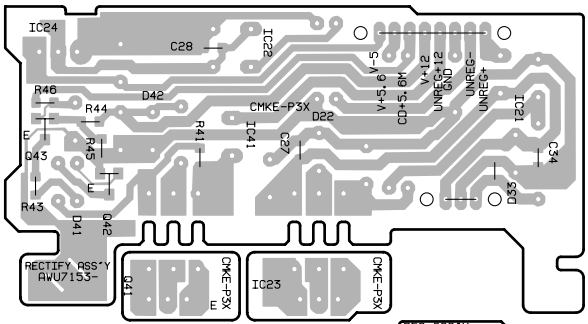


D CD TRANS UNIT

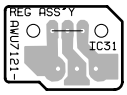


(ANP7246-C)

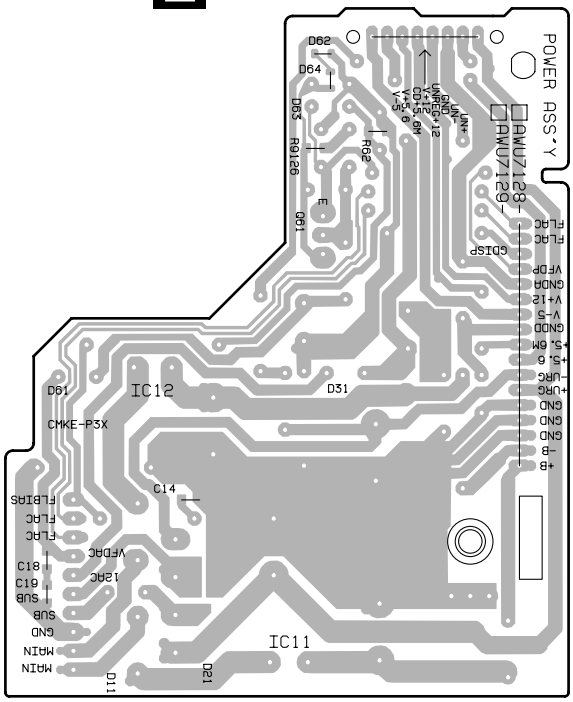
F CD POWER UNIT



G CD REG UNIT

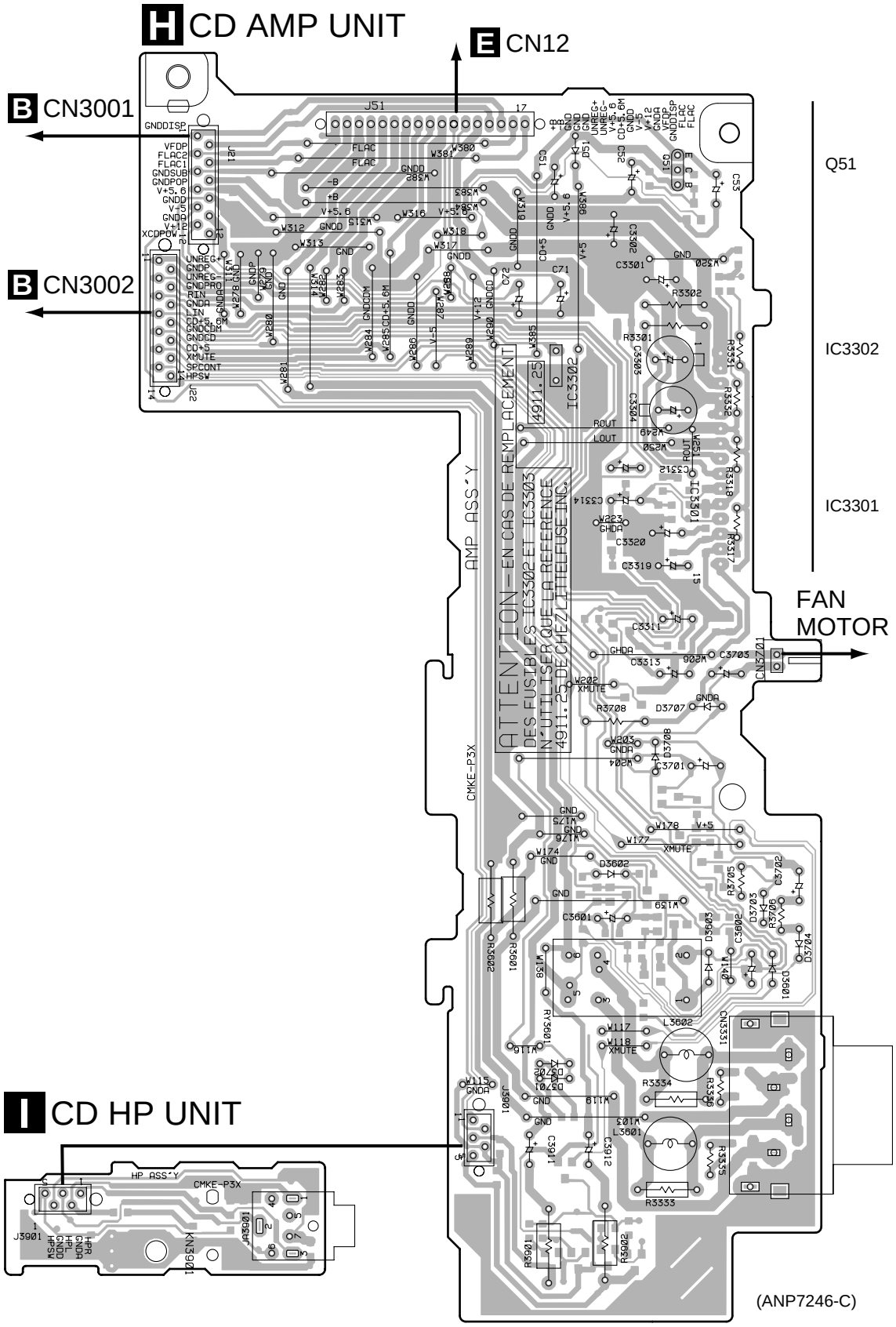


E CD RECTIFY UNIT



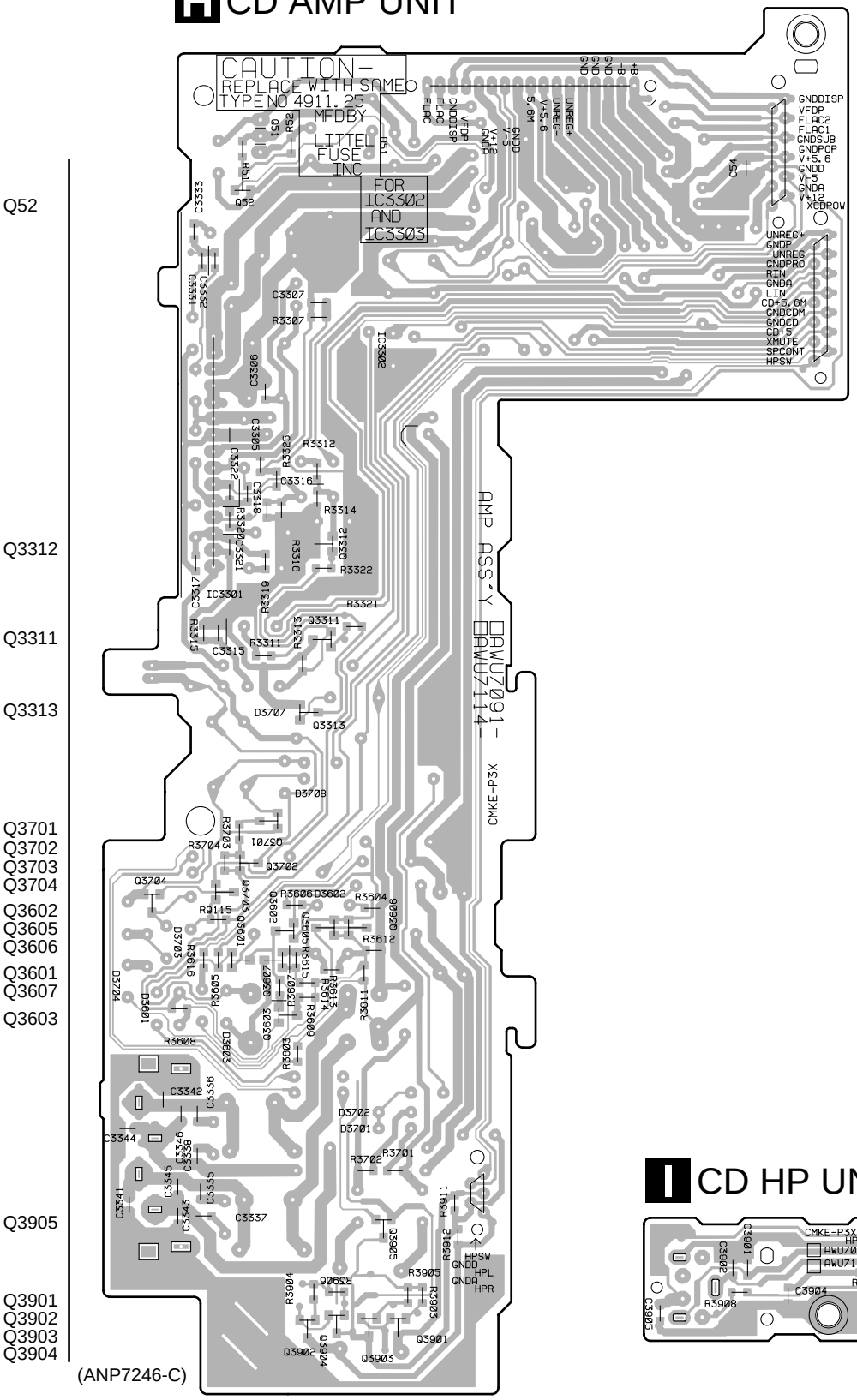
4.4 CD AMP AND CD HP UNITS

SIDE A

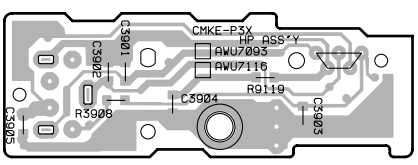


SIDE B

H CD AMP UNIT

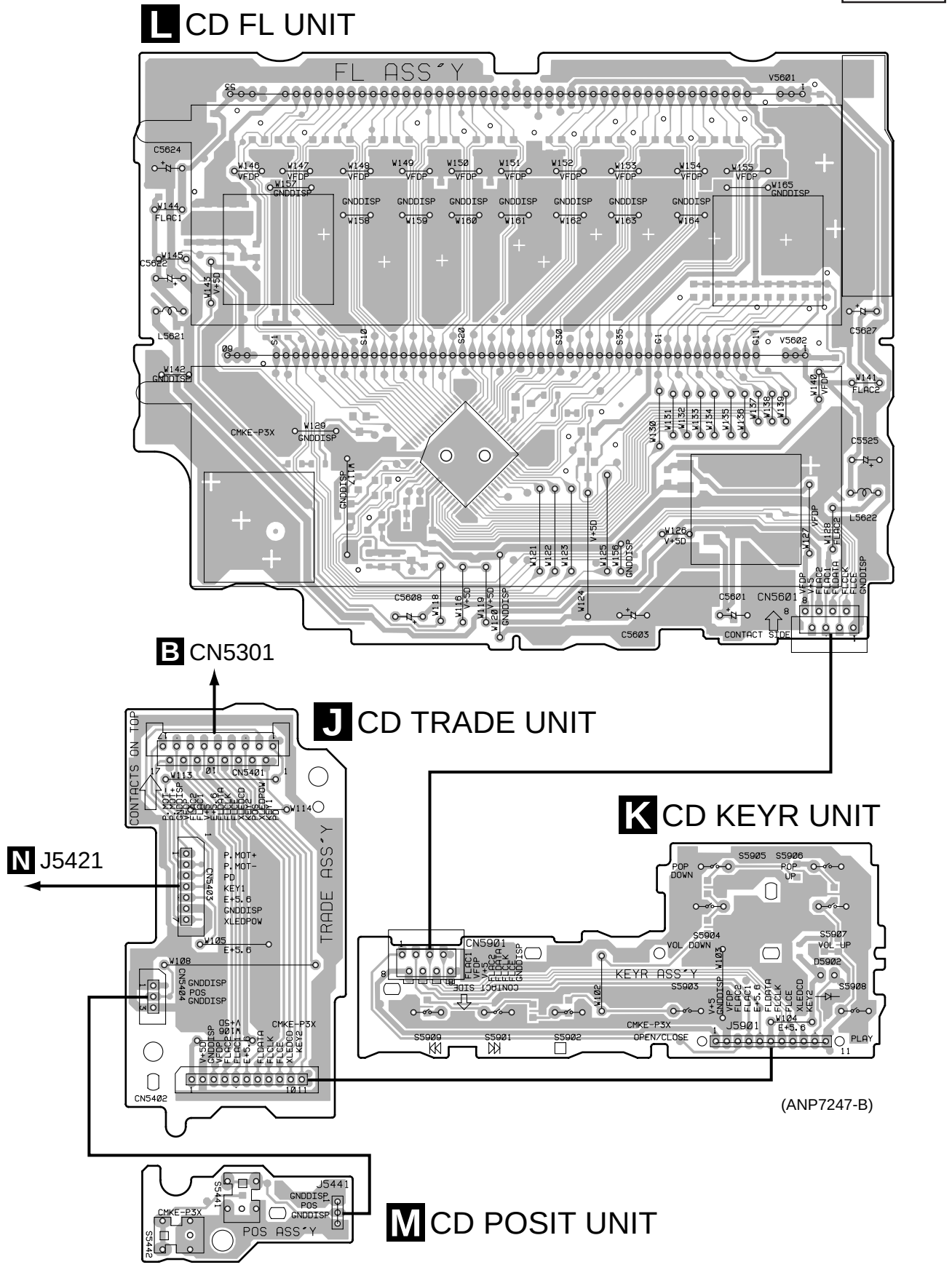


I CD HP UNIT



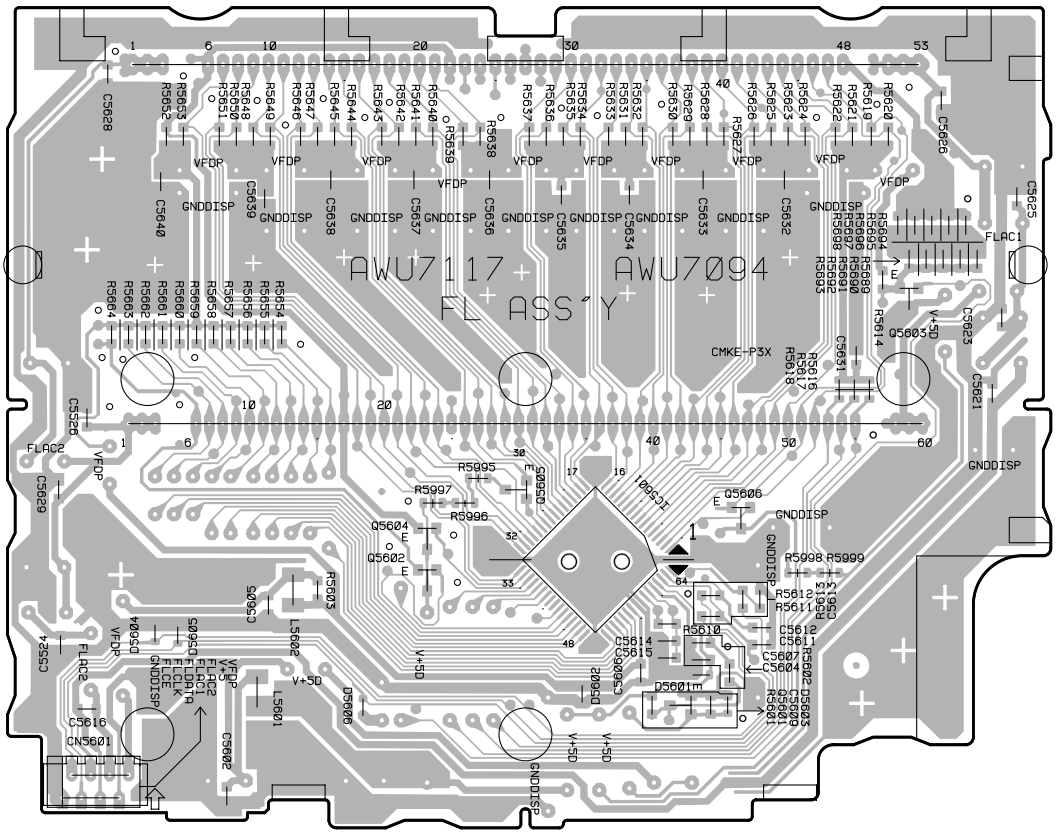
4.5 CD TRADE, CD KEYR, CD FL AND CD POSIT UNITS

SIDE A

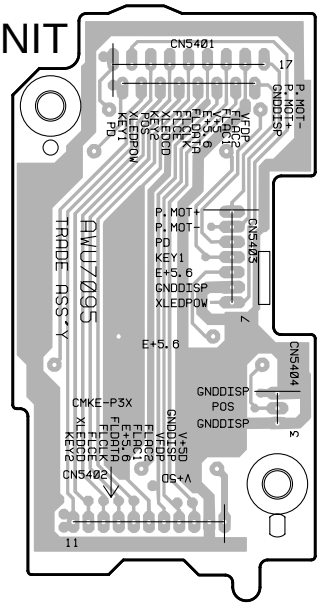


SIDE B

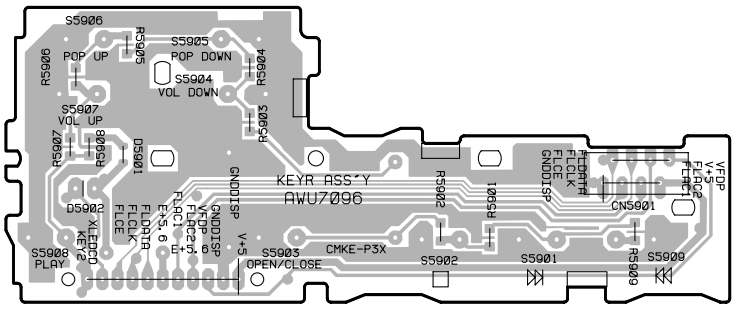
L CD FL UNIT



J CD TRADE UNIT

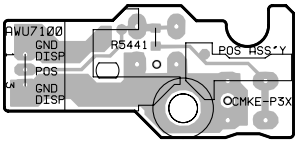


K CD KEYR UNIT



(ANP7247-B)

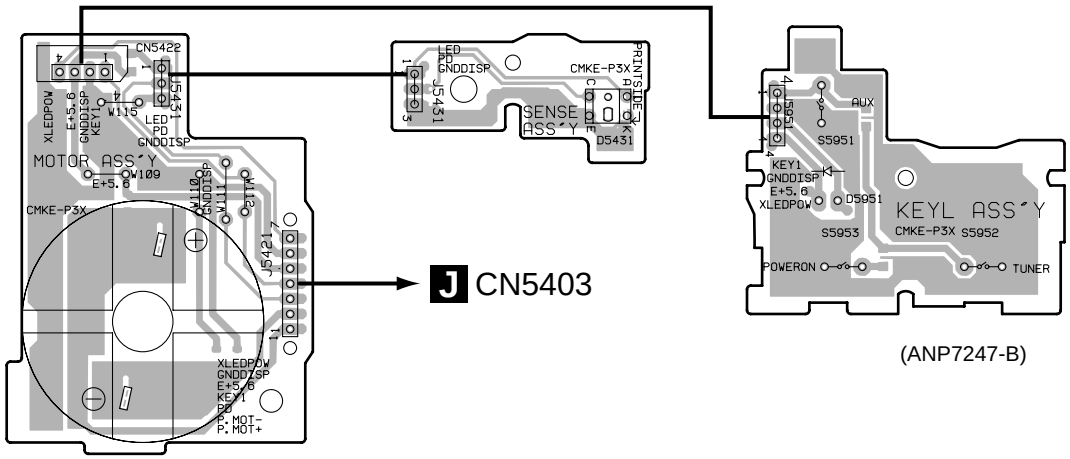
M CD POSIT UNIT



4.6 CD MOTOR, CD KEYL AND CD SENSE UNITS

SIDE A

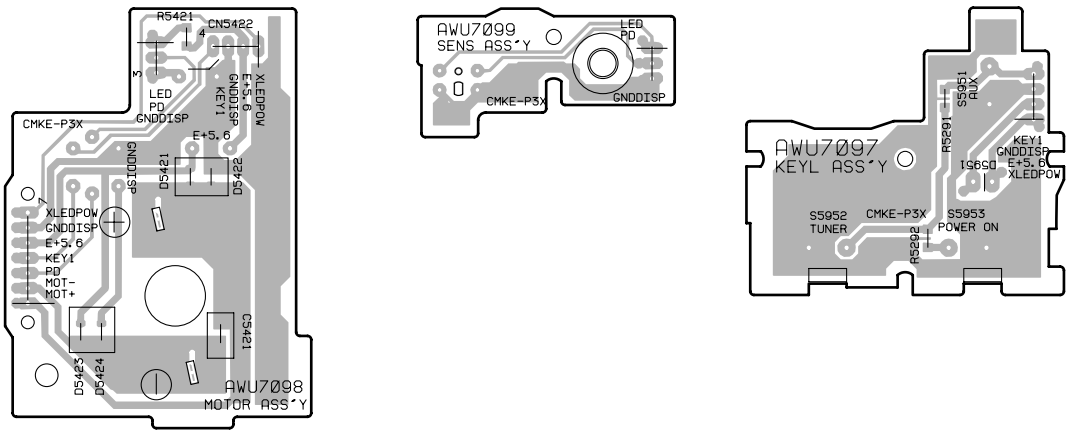
N CD MOTOR UNIT **P** CD SENSE UNIT **O** CD KEYL UNIT



(ANP7247-B)

SIDE B

N CD MOTOR UNIT **P** CD SENSE UNIT **O** CD KEYL UNIT



(ANP7247-B)

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	→	56×10^1	→	*561* ..... *RD1/4PU 5 6 1 J*
47k Ω	→	47×10^3	→	*473* ..... *RD1/4PU 4 7 3 J*
0.5 Ω	→	*R50*		..... *RN2H R 5 0 K*
1 Ω	→	*1R0*		..... *RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	→	562×10^1	→	*5621* ..... *RN1/4PC 5 6 2 1 F*

Mark	No.	Description	Part No.

LIST OF ASSEMBLIES

	FM/AM TUNER MODULE	AXQ7077
NSP	CDCOMP ASSY	AWM7376
	├ CD MAIN UNIT	AWU7090
	├ CD REM UNIT	AWU7130
	├ CD TRANS UNIT	AWU7092
	├ CD RECTIFY UNIT	AWU7128
	├ CD POWER UNIT	AWU7153
	├ CD REG UNIT	AWU7121
	├ CD AMP UNIT	AWU7091
	└ CD HP UNIT	AWU7093
NSP	DISPLAY ASSY	AWM7377
	├ CD TRADE UNIT	AWU7095
	├ CD KEYR UNIT	AWU7096
	├ CD FL UNIT	AWU7094
	├ CD POSIT UNIT	AWU7100
	├ CD MOTOR UNIT	AWU7098
	├ CD KEYL UNIT	AWU7097
	└ CD SENSE UNIT	AWU7099

A FM/AM TUNER MODULE

SEMICONDUCTORS

IC6201	LA1832ML
IC6202	LC72131MD
Q6102	2SC2223
Q6203	2SC2705
Q6201, Q6202	2SC2712
Q6103, Q6214, Q6601	2SC2714
Q6104, Q6105	2SK302
Q6101	3SK194
Q6204	DTA124ES
Q6205	DTC124EK
D6202	1SS254
D6101–D6104	1SV228

COILS AND FILTERS

L6106	ATC1003
L6105	ATC1015
L6101	ATC1016
L6102	ATC1017
L6103	ATC1018
L6104	ATC1019
F6203	ATF-119
F6206	ATF7008
F6601	ATF7009
F6204	ATF7010
F6202	ATF7011
L6107	ATH1043
L6603	LAU220J
L6206, L6208, L6605	LAU2R2J

TRANSFORMERS

T6201	ATB7008
T6101	ATE7002

CAPACITORS

C6113, C6212, C6274, C6275, C6611	CCSQCH101J50
C6116, C6208, C6221	CCSQCH150J50
C6222	CCSQCH180J50
C6271	CCSQCH200J50
C6117	CCSQCH330J50
C6608	CCSQCH680J50
C6118	CCSQCH8R0D50
C6111, C6122	CCSQCK1R0C50
C6112, C6127	CCSQCK2R0C50
C6105	CCSQSL471J50
C6101	CCSQTH110J50
C6119	CCSQTH150J50
C6109	CCSQTH270J50
C6107, C6110	CCSQTH300J50
C6106	CCSQTH330J50
C6234, C6235	CEAL1R0M50
C6245	CEAL470M16
C6224	CEAT100M50
C6243	CEAT101M16
C6231	CEAT1R0M50
C6227	CEAT220M50
C6236	CEAT2R2M50
C6216	CEAT330M16
C6262	CEAT3R3M50
C6219	CEAT470M10
C6244	CEAT470M16
C6249, C6250, C6265, C6266	CEAT4R7M50
C6258	CEJA470M16
C6215	CFTLA103J50
C6214	CFTLA224J50

Mark	No.	Description	Part No.
	C6115, C6125, C6126, C6211, C6254		CKSQYB102K50
	C6601		CKSQYB102K50
	C6102, C6114, C6121, C6123, C6124		CKSQYB103K50
	C6210, C6213, C6237, C6267, C6276		CKSQYB103K50
	C6279, C6281, C6604		CKSQYB103K50
	C6251, C6252		CKSQYB123K50
	C6606, C6607		CKSQYB182K50
	C6203, C6259		CKSQYB223K50
	C6228		CKSQYB472K50
	C6209		CKSQYB473K50
	C6230		CKSQYB821K50
	C6218, C6223, C6255		CKSQYF103Z50
	C6220, C6226, C6242, C6256		CKSQYF223Z50
	C6225		CKSQYF473Z50
	C6610		CKSYB103K50

RESISTORS

	R6602	RD1/4PU221J
	R6115, R6119, R6123, R6127, R6129	RS1/8S0R0J
	R6906, R6909, R6911	RS1/8S0R0J
	R6112	RS1/8S473J
	VR6201 (10kΩ)	RCP1045
	Other Resistors	RS1/10S□□□J

OTHERS

	BN6202	2P TERMINAL WITH PAL	AKA7001
	X6202	CRYSTAL RESONATOR (456 KHz)	ASS1066
	X6201	CRYSTAL RESONATOR (7.2000 MHz)	ASS1093
	CN6201	14P SOCKET	KP200IA14L
		AM RF TUNING BLOCK	AXX7042

B CD MAIN UNIT

SEMICONDUCTORS

Mark			
⚠	IC5221, IC5222	PROTECTOR(1A)	AEK7009
	IC5701		BU1923F
	IC3101		BU4052BCF
	IC3121		BU4066BCF
	IC1101		CXA1821M
	IC1201		CXD2587Q
	IC1301		M56758FP
	IC3001		M62420FP
	IC3111, IC3131		NJM4558MD
	IC5251		NJM78M56FA
	IC5501		PDG224A
	Q5223, Q5226, Q5331		2PB709A
	Q3051, Q3061, Q5224, Q5225, Q5591		2PD601A
	Q1101		2SA854S
	Q5222		2SB1237X
	Q5251		2SC2458
	Q5221, Q5315, Q5316		2SD1858X
	Q1401, Q1402		2SD2114K
	Q5311, Q5312		2SD2395
	Q1201, Q1403, Q1404, Q3121, Q5301		DTA124EK
	Q5313, Q5314		DTA124EK
	Q5252		DTA143EK
	Q3122, Q5332		DTC124EK
	Q5592		DTC143EK
	D1101, D3150, D3151, D5101		1SS254
	D5252–D5256, D5553, D5591, D5592		1SS254
	D1331, D5552		1SS355
	D3051		MTZJ10B
	D5311		MTZJ3.9B
	D5312		MTZJ4.7B
	D6904, D6906		MTZJ8.2B
	D5551		S5688G
	D1332		UDZ4.7B
	D6901–D6903, D6905		UDZS8.2B

COILS AND FILTERS

	L1101, L1102, L1201, L1231, L1232	LAU100J
	L1301, L1401, L1601, L1651	LAU100J
	L5551	LAU220J
	L5201–L5203	VTL1096

CAPACITORS

	C5594	ACH1246
	C3091–C3094, C5593	CCSQCH101J50
	C1231, C1261	CCSQCH102J50
	C1201, C1202	CCSQCH150J50
	C1401, C1402	CCSQCH151J50
	C1102, C1601	CCSQCH220J50
	C1239, C1246, C1247, C5502, C5503	CCSQCH221J50
	C5701, C5702	CCSQCH270J50
	C5704	CCSQCH271J50
	C3007, C3008, C3115, C3116	CCSQCH470J50
	C5705	CCSQSL561J50
	C1403, C1404	CCSQSL681J50
	C1203, C1233, C1240, C1602, C5102	CEAL101M6R3
	C1238	CEALR47M50
	C1324, C3017, C3018, C3051	CEAT100M50
	C3111, C3112, C5252, C5703	CEAT100M50
	C1101, C1108, C1321, C1651, C3004	CEAT101M10
	C5105	CEAT101M16
	C5313	CEAT102M6R3
	C3061, C5251	CEAT1R0M50
	C1103, C1105	CEAT330M25
	C3131, C3132, C5707	CEAT470M16
	C3062	CEAT470M50
	C1405, C1406, C5595	CEJA100M16
	C3001	CEJA100M50
	C1242, C1249, C5553	CEJA101M6R3
	C1411	CEJA220M35
	C5505, C5515	CEJA221M6R3
	C5201–C5203, C5207–C5210, C5501	CKSQYB102K50
	C5513	CKSQYB102K50
	C1204, C1205, C1237, C1415, C1416	CKSQYB103K50
	C3002, C3005, C3009	CKSQYB103K50
	C5314	CKSQYB104K25
	C1236, C5512	CKSQYB152K50
	C5516	CKSQYB182K50
	C1248	CKSQYB222K50
	C3011, C3012	CKSQYB223K50
	C1319, C1320, C3015, C3016	CKSQYB333K50
	C1235	CKSQYB473K50
	C3013, C3014	CKSQYB474K16
	C1303, C1304, C1307, C1308	CKSQYB821K50
	C1311	CKSQYB822K50
	C1106, C1107, C1109, C1232, C1234	CKSQYF103Z50
	C1241, C1250, C1251, C1253, C1276	CKSQYF103Z50
	C1322, C1323, C1325, C1413, C1414	CKSQYF103Z50

Mark	No.	Description	Part No.
	C1417, C1603, C1604, C1652, C1653		CKSQYF103Z50
	C3003, C3095, C3113, C3114		CKSQYF103Z50
	C3133, C3134, C5101, C5504		CKSQYF103Z50
	C5506, C5507, C5509, C5510, C5552		CKSQYF103Z50
	C5596, C5597, C5708, C5713		CKSQYF103Z50
	C6902, C6903, C9102		CKSQYF103Z50
	C1113		CKSQYF104Z25
	C1245, C1654, C3006, C5511, C5551		CKSQYF104Z50
	C5556, C6901, C9101		CKSQYF104Z50

RESISTORS

	R5103		RD1/4PU100J
	R5311		RD1/4PU111J
	R5312		RD1/4PU150J
	R5585		RD1/4PU221J
	R5315		RD1/4PU271J
	R5316		RD1/4PU391J
	R1331		RD1/4PU471J
	R5317		RFA1/4PS4R7J
	Other Resistors		RS1/10S□□□J

OTHERS

	CN1101	CONNECTOR(16P)	52030-1610
	CN5251	4P JUMPER CONNECTOR	52147-0410
	CN5301	FFC CONNECTOR 17P	52492-1720
	JA3091	2P PIN JACK	AKB7046
	5001	SOCKET(19P)	AKP7001
	X5701	CRYSTAL RESONATOR (4.332 MHz)	ASS7004
	X5501	CERAMIC RESONATOR (16 MHz)	ASS7020
	CN1302	CONNECTOR KR(5P)	B5B-PH-K-S
	CN1301	CONNECTOR KR(6P)	B6B-PH-K-S
	J5921	JUMPER WIRE(3P)	D20PWY0330E
	JA1651	OPTICAL LINK OUT	GP1F32T
	CN5101	14P PLUG	KM200IA14
	CN3001	CONNECTOR(12P)	KPE12
⚠	CN3002	CONNECTOR(14P)	KPE14
	X1201	CRYSTAL RESONATOR (16.9344 MHz)	PSS1008
	KN1001,KN1002	EARTH METAL FITTING	VNF1084

C CD REM UNIT

CAPACITORS

	C5921		CEAT101M10
	C5922		CKSQYF103Z50

OTHERS

	CN5921	3P JUMPER CONNECTOR	52147-0310
	5921	REMOTE RECEIVER UNIT	GP1U28Y

D CD TRANS UNIT

SEMICONDUCTORS

⚠	IC1, IC2	PROTECTOR(4A)	AEK7018
⚠	IC3	IC PROTECTOR	ICP-N15
⚠	IC4	IC PROTECTOR	ICP-N50
	D5		1SS254
⚠	D1–D4		S5688G

COILS AND FILTERS

⚠	L1	FILTER	ATF-151

Mark	No.	Description	Part No.

TRANSFORMERS

⚠	T2	STANDBY TRANSFORMER	ATT7027

SWITCHES AND RELAYS

⚠	RY1		ASR7019

CAPACITORS

⚠	C1, C2	(0.01/AC250V)	ACG7010
	C5		CEAT102M16
	C4, C6		CQMA103J50
	C3		CQMA103K2E
	C17		CQMBA103J50

RESISTORS

⚠	R2		RFA1/4PS100J
	Other Resistors		RS1/10S□□□J

OTHERS

	1	CABLE HOLDER	51048-0400
	H1, H2	FUSE CLIP	AKR1003
⚠	AN1	AC INLET 1P	BKP1046
	J1	JUMPER WIRE	D20PDY0415E
⚠	CN2	10P SOCKET	KP250NA10

E CD RECTIFY UNIT

SEMICONDUCTORS

⚠	IC11, IC12	PROTECTOR(7A)	AEK7021
⚠	Q61		2SB1566
⚠	D21		D2SBA20(B)
⚠	D11		D3SBA20(B)
⚠	D63		MTZJ6.2B
⚠	D31, D61		S5688G
⚠	D62, D64		UDZ15B

CAPACITORS

⚠	C21	(6800µF/16V)	ACH7103
⚠	C16	(2200µF/35V)	ACH7106
	C62–C64		CEAT100M50
	C61		CEAT221M50
⚠	C31		CEAT222M25
⚠	C15		CEAT222M35
⚠	C22		CEAT472M16
	C14		CKSQYF103Z50

RESISTORS

	R61, R63		RD1/4PU822J
	Other Resistors		RS1/10S□□□J

OTHERS

	12	8P CABLE HOLDER	51048-0800
⚠	CN12	17PJUMPER CONNECTOR	52147-1710
	J12	8P JUMPER WIRE	D20PDD0810E
⚠	CN11	10P PLUG	KM250NA10L
	KN11	EARTH METAL FITTING	VNF1084

F CD POWER UNIT

SEMICONDUCTORS

⚠	IC41	PROTECTOR(750mA)	AEK7007
⚠	IC21	PROTECTOR(1.25A)	AEK7010
⚠	IC22	PROTECTOR(125mA)	AEK7020
⚠	IC23		BA17805T
⚠	IC24		NJM79M06FA

Mark	No.	Description	Part No.
	Q43		2PB709A
	Q42		2PD601A
⚠	Q41		2SB1566
	D22, D41		1SS254
	D42		MTZJ15B
	D33		UDZS8.2B

CAPACITORS

C25		CEAL100M50
C23		CEAL1R0M50
C26, C33		CEAT100M50
C24, C32, C41		CEAT1R0M50
C42		CEAT470M16

RESISTORS

R42		RD1/4PU221J
Other Resistors		RS1/10S□□□J

OTHERS

14	3P CABLE HOLDER	51048-0300
11	8P CABLE HOLDER	51048-0800
J13	JUMPER WIRE 3P	D20PDD0305G

G CD REG UNIT

SEMICONDUCTORS

⚠	IC31	NJM78M56FA

OTHERS

13	3P CABLE HOLDER	51048-0300

H CD AMP UNIT

SEMICONDUCTORS

⚠	IC3301	STK407-040B
	Q3601, Q3602	2PB709A
	Q3603, Q3605, Q3606	2PD601A
⚠	Q51	2SD1858X
	Q3311, Q3312, Q3607, Q3702	2SD2114K
	Q3901–Q3904	2SD2114K
	Q3313, Q3701, Q3905	DTA124EK
	Q3703	DTA124TK
	Q3704, Q52	DTC124EK
	D3601–D3603, D3701–D3704, D3707	1SS254
	D51	1SS254
	D3708	S5688G

COILS AND FILTERS

L3601, L3602		ATH-059

SWITCHES AND RELAYS

⚠	RY3601	SP RELAY/12V	ASR7007

CAPACITORS

C3317, C3318	CCSQCH100D50
C3315, C3316	CCSQCH330J50
C3321, C3322	CCSQCH470J50
C72	CEAL470M16
C3602, C3911, C3912, C53	CEAT100M50
C3701, C3702	CEAT101M16
C3303, C3304	CEAT101M35
C3703	CEAT221M25
C3601	CEAT221M6R3
C3319, C3320	CEAT330M16
C51, C52, C71	CEAT470M16
C3301, C3302	CEAT470M35
C3313, C3314	CEAT4R7M50
C3311, C3312	CEZA100M50
C3307, C3341, C3342, C3345, C3346	CKSQYB102K50
C3331–C3333	CKSQYB473K50
C3305, C3306, C3343, C3344	CKSQYF103Z50
C3335–C3338	CKSQYF473Z50

RESISTORS

⚠	R3601, R3602 (0.1Ω/1W)	ACN7032
	R3333, R3334	RD1/4LMF101J
	R3331, R3332	RD1/4PU100J
	R3705	RD1/4PU103J
	R3706	RD1/4PU562J
	R3317, R3318	RD1/4PU563J
	R3335, R3336	RD1/4PU6R8J
⚠	R3301, R3302	RFA1/4PS101J
	R3708	RFA1/4PS330J
⚠	R3901, R3902	RS1LMF331J
	Other Resistors	RS1/10S□□□J

OTHERS

3903	CABLE HOLDER(5P)	51063-0505
21	CABLE HOLDER(12P)	51063-1205
22	CABLE HOLDER(14P)	51063-1405
3331	SPEAKER TERMINAL 4P	AKE1025
J3901	JUMPER WIRE(5P)	D15A05-250-2468
J21	JUMPER WIRE(12P)	D15A12-200-2651
J22	JUMPER WIRE(14P)	D15A14-200-2651
J51	JUMPER WIRE(17P)	D20PDY1710E

I CD HP UNIT

CAPACITORS

C3901–C3904	CKSQYF103Z50
C3905	CKSQYF104Z50

RESISTORS

All Resistors	RS1/10S□□□J

OTHERS

3902	CABLE HOLDER(5P)	51063-0505
3901	MINI JACK	AKN7003
KN3901	EARTH METAL FITTING	VNF1084

J CD TRADE UNIT

OTHERS

CN5401	17P CONNECTOR	52044-1745
CN5404	3PJUMPER CONNECTOR	52151-0310
CN5403	7PJUMPER CONNECTOR	52151-0710

K CD KEYR UNIT

SEMICONDUCTORS

D5902	SLP3118C51H

SWITCHES AND RELAYS

S5905, S5906	RSG1030
S5901–S5904, S5907–S5909	RSG1031

Mark	No.	Description	Part No.

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	5901	CABLE HOLDER(11P)	51048-1100
	CN5901	FFC CONNECTOR 8P	52492-0820
	J5901	JUMPER WIRE(11P)	D20PDY1110E

L CD FL UNIT

SEMICONDUCTORS

IC5601		LC75712E
Q5602, Q5604–Q5606		2PD601A
Q5603		2SD1484K
Q5601		DTC124EK
D5603		1SS355

COILS AND FILTERS

L5601, L5602	LCTA220J3225
L5621, L5622	LFA1R0J

CAPACITORS

C5612, C5613	CCSQCH221J50
C5614	CCSQCH300J50
C5608	CEAL100M16
C5603	CEAL101M6R3
C5525, C5622, C5624, C5627	CEAL2R2M50
C5601	CEAL470M16
C5611	CKSQYB102K50
C5524, C5616, C5621	CKSQYB103K50
C5604, C5609	CKSQYF103Z50
C5526, C5602, C5605, C5606, C5623	CKSQYF104Z50
C5626, C5628	CKSQYF104Z50

RESISTORS

All Resistors		RS1/10S□□□J

OTHERS

CN5601	CONNECTOR 8P	52492-0820
V5602	FL TUBE	AAV7055
V5601	FL TUBE	AAV7056
	FL SPACER	AEB7125

M CD POSIT UNIT

SWITCHES AND RELAYS

S5441, S5442	ASG7012

RESISTORS

All Resistors	RS1/10S□□□J

OTHERS

J5441	3P JUMPER WIRE	D20PWY0305E

N CD MOTOR UNIT

CAPACITORS

C5421	CKSQYF103Z50

RESISTORS

All Resistors	RS1/10S□□□J

OTHERS

5421	CABLE HOLDER(7P)	51048-0700
CN5422	4PJUMPER CONNECTOR	52151-0410
J5421	JUMPER WIRE(7P)	D20PDY0735E

O CD KEYL UNIT

SEMICONDUCTORS

D5951	SLP9118C51H

SWITCHES AND RELAYS

S5951–S5953	RSG1030

RESISTORS

All Resistors	RS1/10S□□□J

OTHERS

J5951	JUMPER WIRE(4P)	D20PWY0410E

P CD SENSE UNIT

SEMICONDUCTORS

D5431	PHOTO INTERRUPTER	GP1S94

OTHERS

J5431	3P JUMPER WIRE	D20PWW0305E

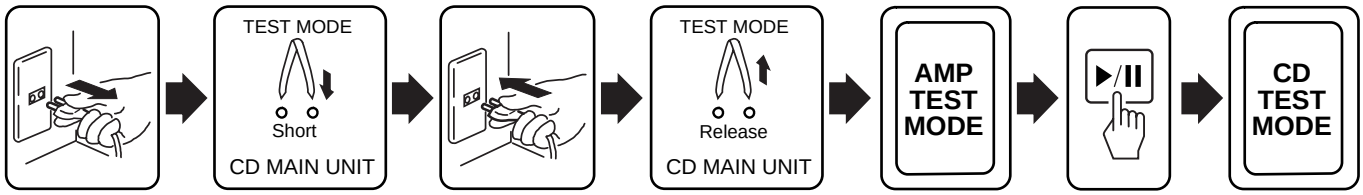
6. ADJUSTMENT

6.1 TEST MODE

Note : There is no information to be shown in this CD adjustment.

6.1.1 HOW TO START / CANCEL TEST MODE

TEST MODE : ON



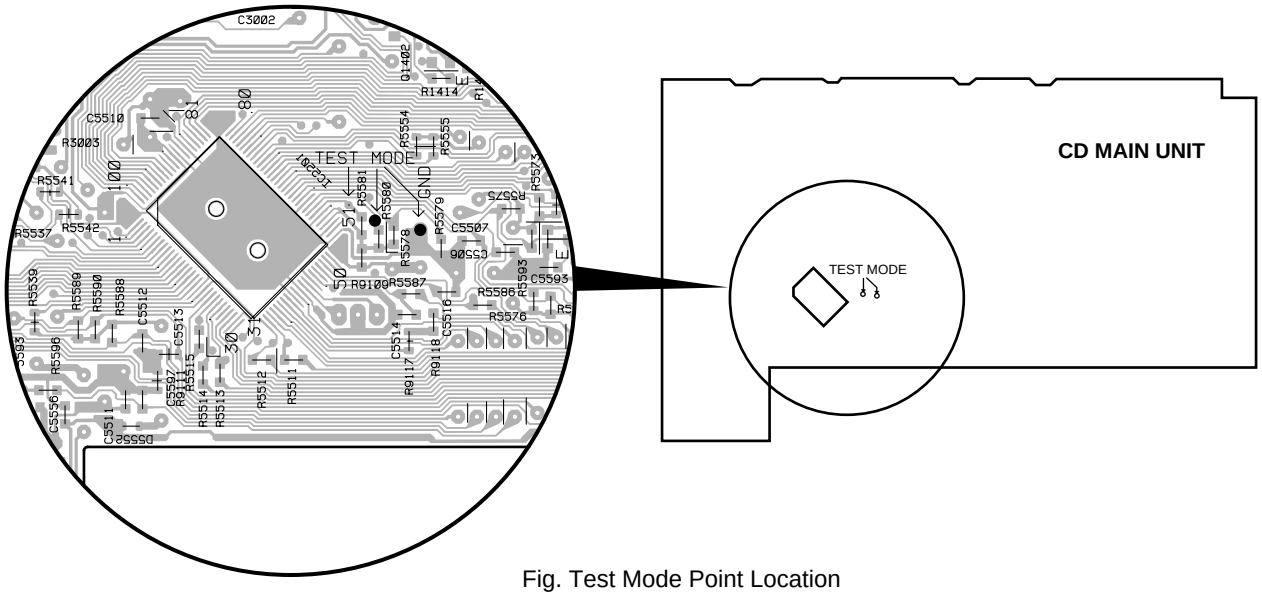
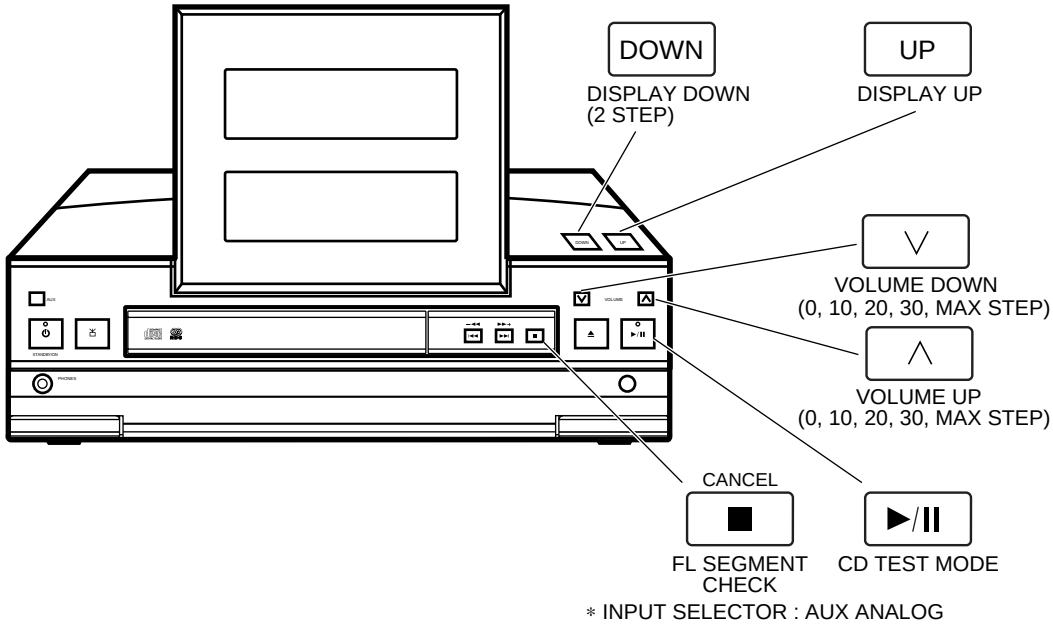


Fig. Test Mode Point Location

FUNCTION OF AMP TEST MODE



∗ INPUT SELECTOR : AUX ANALOG

● **Special Function**

DISPLAY fixed mode (POPUP is fixed even if the POWER is turned ON and OFF.)

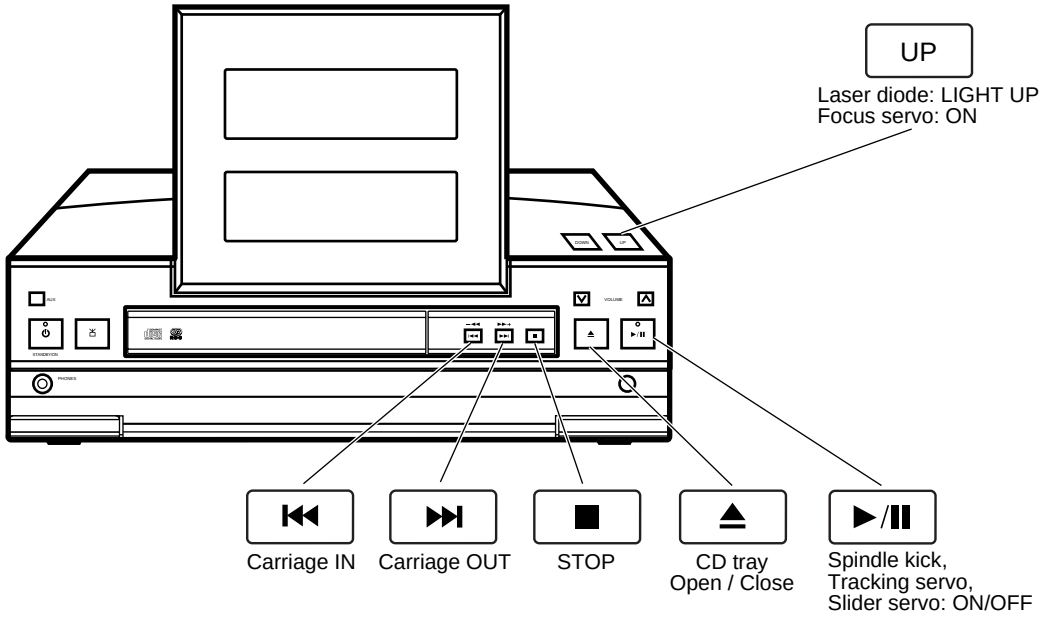
How to Set Up

Press POWER button (Receiver) with pressing STOP button (Receiver) in the TEST mode.

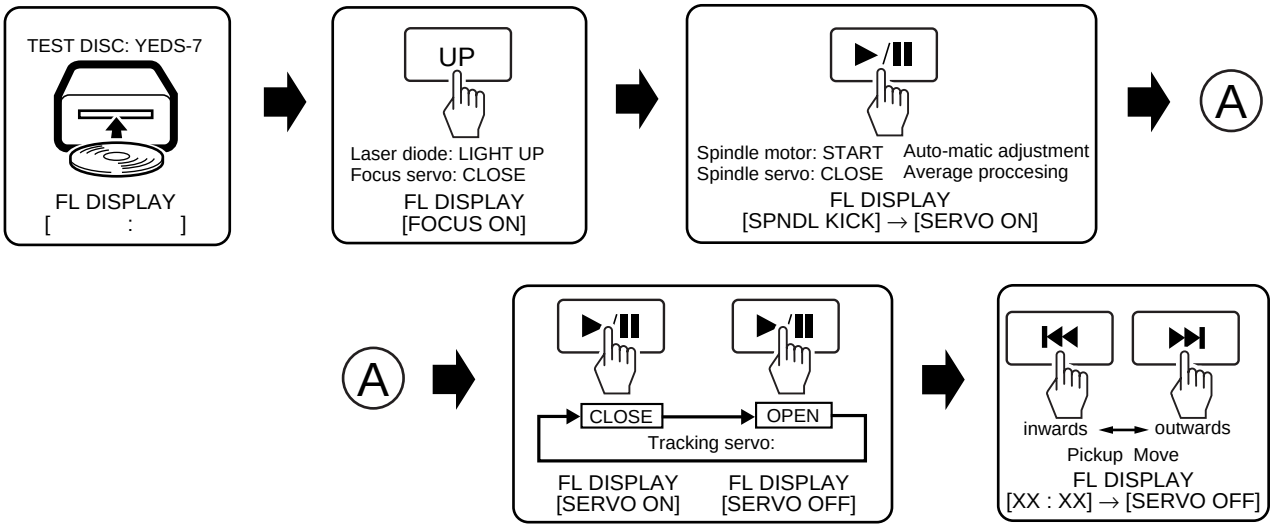
How to Release

Unplug the AC power cord from the outlet.

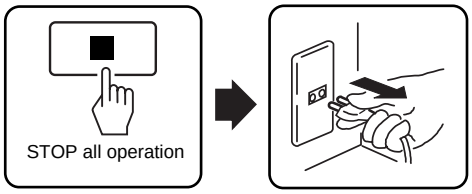
FUNCTION OF CD TEST MODE



TEST MODE : PLAY



TEST MODE : STOP → CANCEL



6.2 TUNER SECTION

6.2.1 FM TUNER SECTION

• Set the mode selector to FM BAND.
• Connect the wiring as shown in Fig. 1.

Step No.	Adjustment Title	FM SG (1kHz, ± 75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Front End Sensitivity	106	0-30	106MHz	L6104 L6105 L6102 T6101	Adjust so that the DC voltage between the IC6201-pin 20 and GND becomes at maximum level.
2	Stereo Distortion	98 (ON STEREO)	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
3	TUNED IND. Lighting Level	98	18 ± 2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Note:
Before adjusting, make sure there is no gap between L6101 and L6102 as well as between L6103 and L6104. If there is a gap between them, bring them into contact with each other first, and then make adjustments.

6.2.2 AM TUNER SECTION

• Set the mode selector to AM BAND.
• Connect the wiring as shown in Fig. 1.

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	Front End Sensitivity	999 ∗1	35~45	999kHz ∗1	T6201	Adjust so that the DC voltage between the IC6201-pin 20 and GND becomes at maximum level.

∗1: For the area using 10kHz step, frequencies should be 1000kHz.

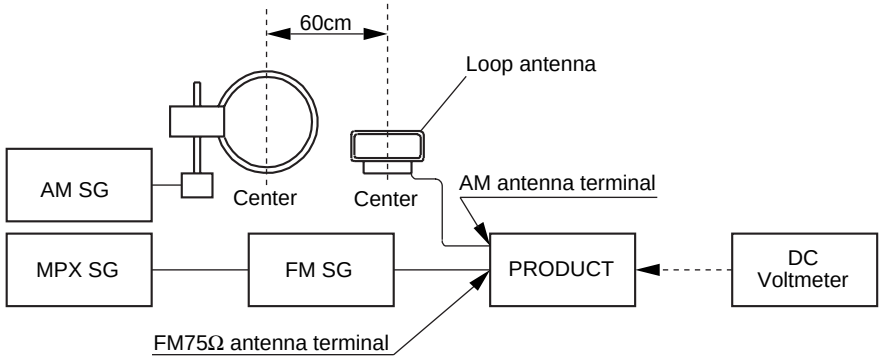


Fig. 1 AM and FM Adjustment Wiring Diagram

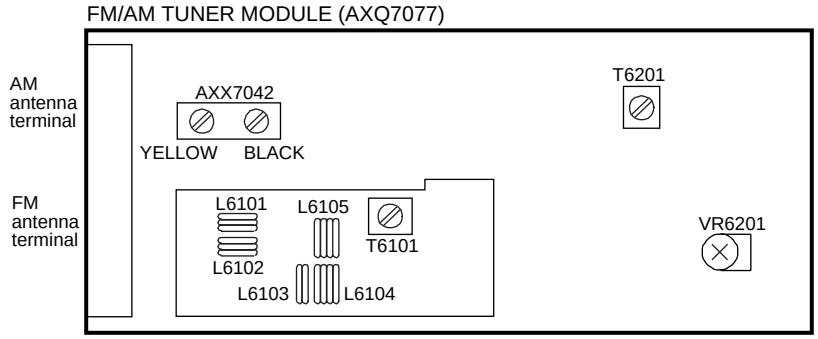


Fig. 2 Adjustment Point

7. GENERAL INFORMATION

7.1 PARTS

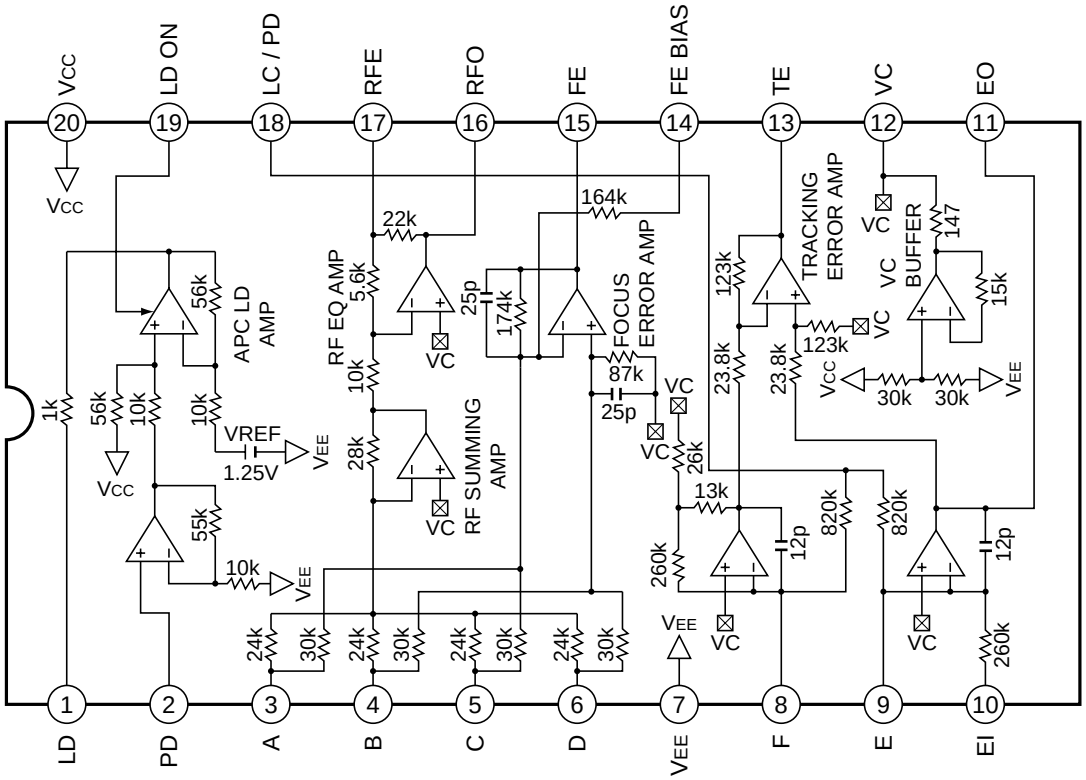
7.1.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ CXA1821M (CD MAIN UNIT : IC1101)

• RF AMP. IC

●Block Diagram



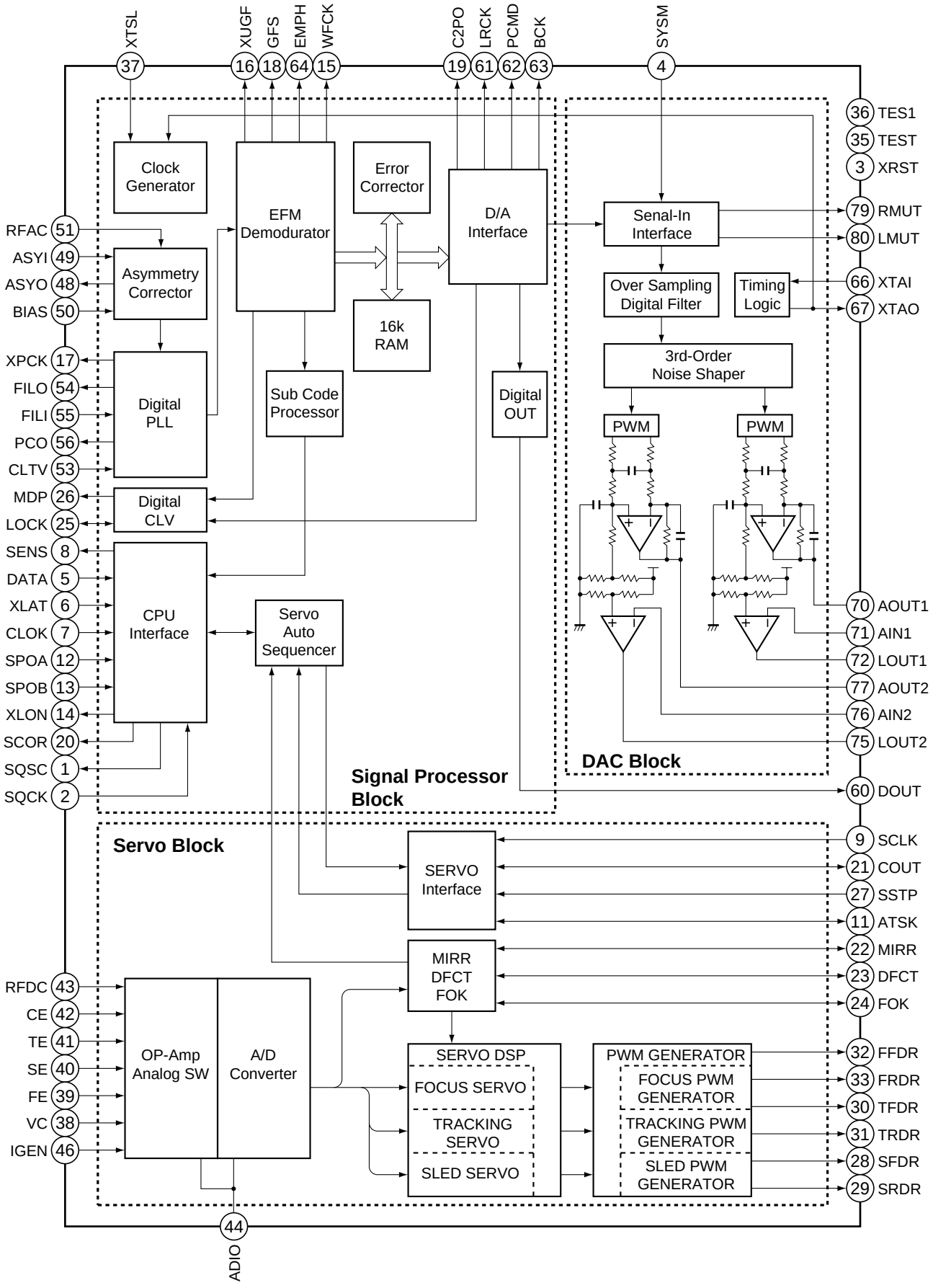
●Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	LD	O	APC amplifier output	11	EO	–	Gain adjust the signal which was input from pin 9.
2	PD	I	APC amplifier input	12	VC	O	DC voltage output of (VCC+VEE)/2
3	A	I	RF amplifier and FE amplifier input	13	TE	O	Tracking error amplifier output F-E signal is output.
4	B			14	FE BIAS	I	Pin for focus bias adjustment
5	C			15	FE	O	Focus error amplifier output
6	D			16	RFO	O	RF amplifier output
7	VEE	–	Ground pin	17	RFE	–	Pin for RF amplifier equalization
8	F	I	Tracking error amplifier input.	18	LC/PD	I	Bias pin VCC : LC , OPEN : PDIC
9	E			19	LD ON	I	ON/OFF switching pin of APC amplifier VCC : ON, VEE : OFF
10	EI	–	Gain adjust the signal which was input from pin 9.	20	VCC	–	Power supply pin

■ CXD2587Q (CD MAIN UNIT : IC1201)

• **SERVO IC**

●Block Diagram



●Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	SQSO	O	SubQ 80-bit, PCM peak and level data output CD TEXT data output	41	TE	I	Tracking error input
2	SQCK	I	Clock input for SQSO readout	42	CE	I	Center servo analog input
3	XRST	I	System reset Reset when "L"	43	RFDC	I	RF signal input
4	SYSM	I	Mute input Mute when "H"	44	ADIO	O	OP amplifier output
5	DATA	I	Serial data input from CPU	45	$AV_{SS}0$	–	Analog GND
6	XLAT	I	Latch input from CPU Serial data is latched at the falling edge.	46	IGEN	I	Constant current input for OP amplifier
7	CLOK	I	Serial data transfer clock input from CPU	47	$AV_{DD}0$	–	Analog power supply
8	SENS	O	SENS output to CPU	48	ASYO	O	EFM full-swing output ("L"=VSS, "H"=VDD)
9	SCLK	I	Clock input for SENS serial-data readout	49	ASYI	I	Asymmetry comparate voltage input
10	V_{DD}	–	Digital power supply	50	BIAS	I	Constant current input of the asymmetry circuit
11	ATSK	I/O	Input and output for unti-shock	51	RFAC	I	EFM signal input
12	SPOA	I	Microcomputer extended interface (input A)	52	$AV_{SS}3$	–	Analog GND
13	SPOB	I	Microcomputer extended interface (input B)	53	CLTV	I	VCO control voltage input for master
14	XLON	O	Microcomputer extended interface (output)	54	FILO	O	Filter output for master PLL (Slave=digital PLL)
15	WFCK	O	WFCK output	55	FILI	I	Filter input for master PLL
16	XUGF	O	XUGF output MNT1 and RFCK output by switching the command.	56	PCO	O	Charge pump output for master PLL
17	XPCK	O	XPLCK output MNT0 output by switching the command.	57	$AV_{DD}3$	–	Analog power supply
18	GFS	O	GFS output MNT3 and XRAOF output by switching the command.	58	V_{SS}	–	Digital GND
19	C2PO	O	C2PO output GTOP output by switching the command.	59	V_{DD}	–	Digital power supply
20	SCOR	O	Outputs "H" when either subcode sync. S0 or S1 is detected.	60	DOUT	O	DIGITAL OUT output
21	COUT	I/O	Input and output of track-number count signal	61	LRCK	O	D/A interface LR clock output f=Fs
22	MIRR	I/O	Mirror signal input and output	62	PCMD	O	D/A interface Serial data output (two's complement, MSB first)
23	DFCT	I/O	Defect signal input and output	63	BCK	O	D/A interface Bit clock output
24	FOK	I/O	Focus OK signal input and output	64	EMPH	O	Outputs "H" when the playback disc has emphasis, and "L" when there is no emphasis.
25	LOCK	I/O	GFS is sampled at 460Hz;when GFS is "H", this pin outputs "H". If GFS is "L" eight consecutive samples, this pin outputs "L". Input when LKIN="H".	65	XV_{DD}	–	Power supply for master clock
26	MDP	O	Servo control output of spindle motor	66	XTAI	I	Crystal oscillation circuit input Input the external master clock via this pin.
27	SSTP	I	Detection signal input of disc innermost	67	XTAO	O	Crystal oscillation circuit output
28	SFDR	O	Sled drive output	68	XV_{SS}	–	GND for master clock
29	SRDR	O		69	$AV_{DD}1$	–	Analog power supply
30	TFDR	O	Tracking drive output	70	AOUT1	O	L ch analog output
31	TRDR	O		71	AIN1	I	L ch OP amp. input
32	FFDR	O	Focus drive output	72	LOUT1	O	L ch LINE output
33	FRDR	O		73	$AV_{SS}1$	–	Analog GND
34	V_{SS}	–	Digital GND	74	$AV_{SS}2$	–	Analog GND
35	TEST	I	TEST pin : normally GND	75	LOUT2	O	R ch LINE output
36	TEST	I		76	AIN2	I	R ch OP amp. input
37	XTSL	I	Crystal selector input "L":16.9344MHz , "H":33.8688MHz	77	AOUT2	O	R ch analog output
38	VC	I	Center voltage input	78	$AV_{DD}2$	–	Analog power supply
39	FE	I	Focus error signal input	79	RMUT	O	R ch zero detection flag
40	SE	I	Sled error signal input	80	LMUT	O	L ch zero detection flag

Notes)

- PCMD is an MSB first. two's complement output.
- GTOP is used to monitor the frame sync protection status. (High:sync protection window released)
- XUGF is the negative pulse for the frame sync derived from the EFM signal. It is the signal before sync protection.
- XPLCK is the inverse of the EFM PLL clock. The PLL is designed so that the falling edge of XPLCK and the EFM signal transition point coincide.
- GFS goes high when the frame sync and the insertion protection timing match.
- RFCK is derived with the crystal accuracy. This signal has a cycle of 136µs.
- C2PO represents the data error status.
- XRAOF is generated when the 16K RAM exceeds the ±4F jitter margin.

■ PDG224A (CD MAIN UNIT : IC5501)

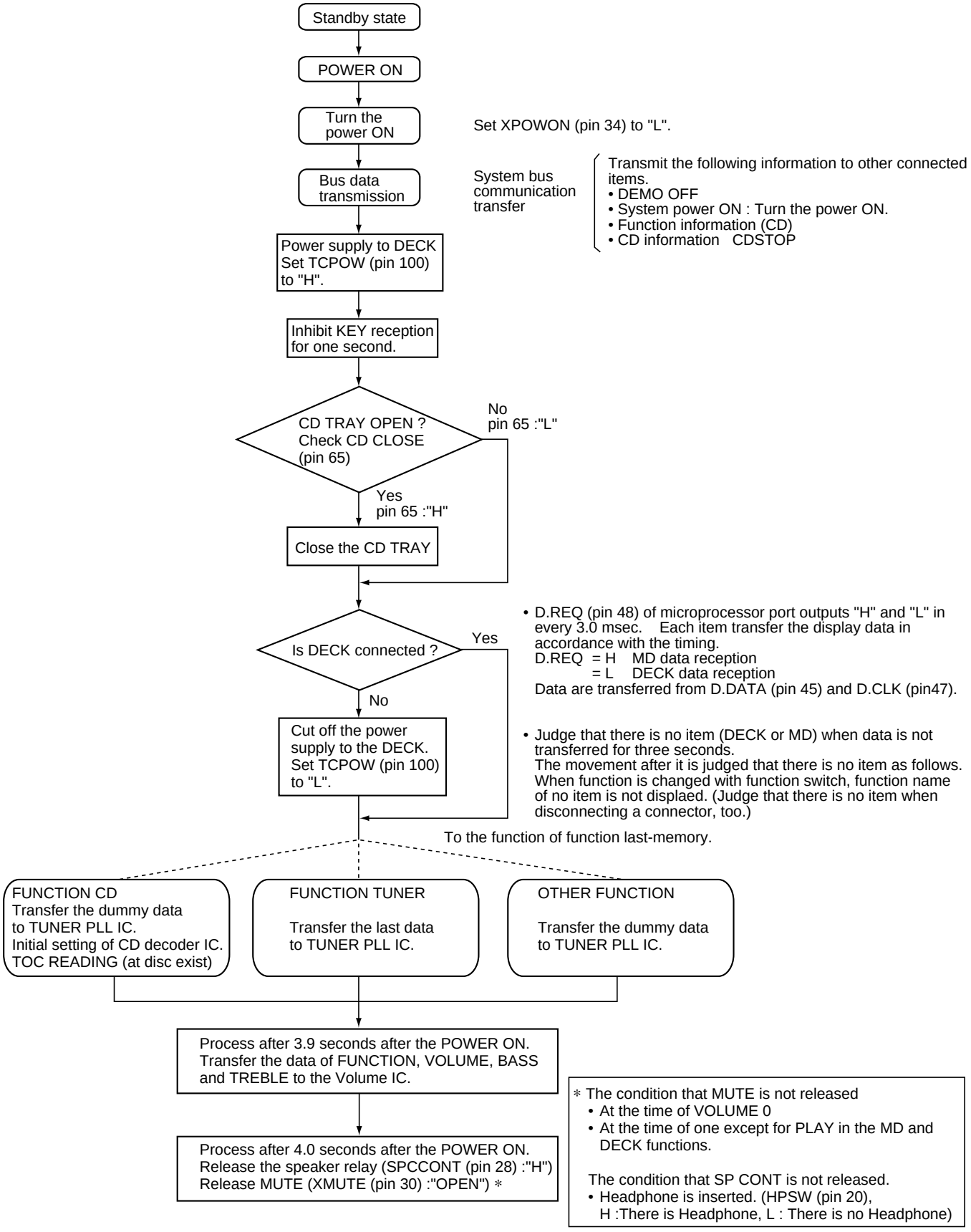
• Mode Control IC

●Pin Function

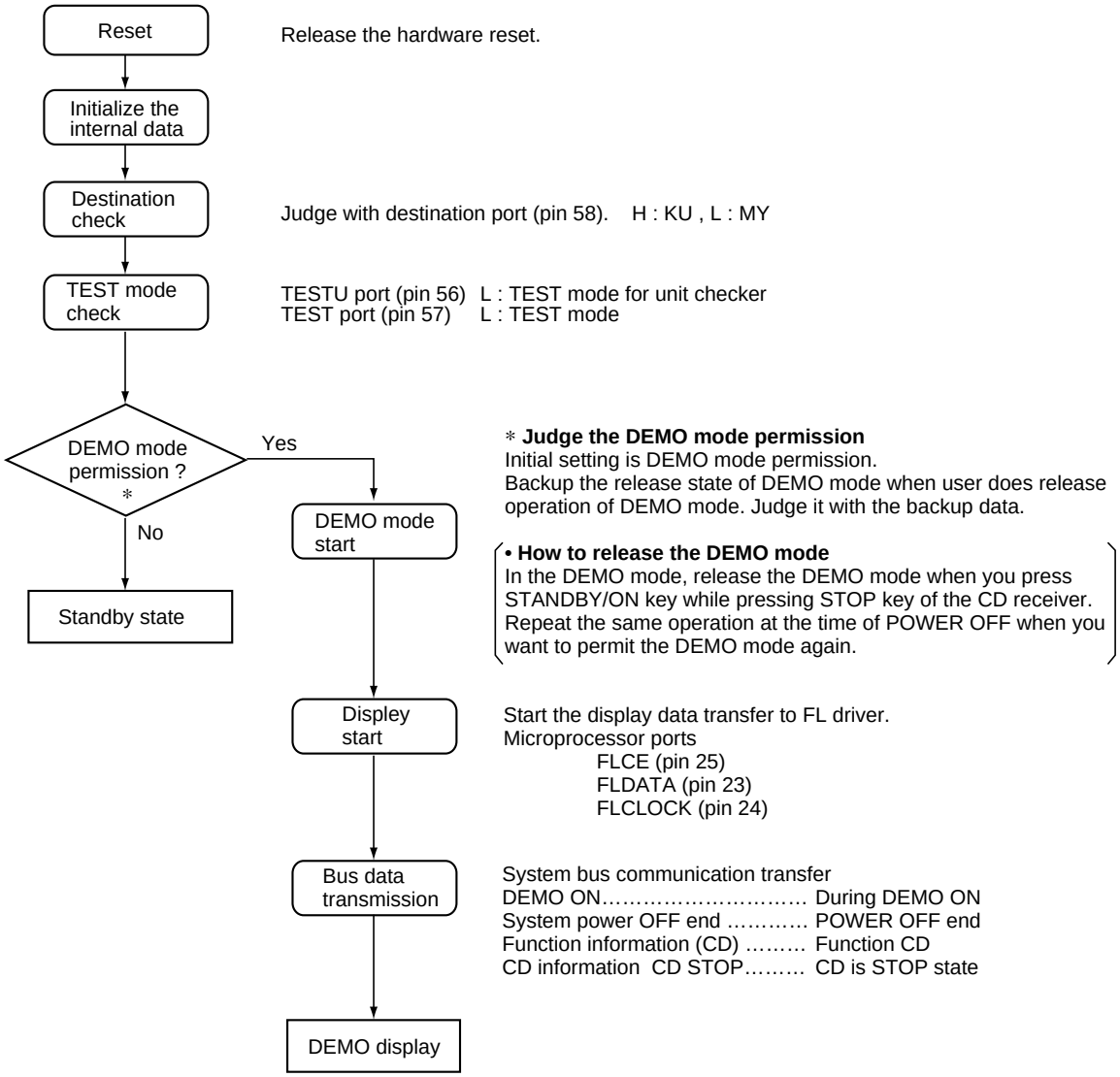
(*) : PLL frequency synthesizer for electronic tunning

No.	Mark	Pin Name	I/O	Function	No.	Mark	Pin Name	I/O	Function
1	PB5/PP013	NC	O		51	PF4/AN8	NC	O	
2	PB4/PP012	SCL	O	Electronic VOL IC M62420FP clock	52	AVss	GNDD	O	
3	PB3/PP011	NC	O		53	AVref	AVref	−	Reference voltage for AD converter
4	PB2/PP010	NC	O		54	AVdd	Avdd	−	
5	PB1/PP09	S.CLK	O	System bus CLOCK OUT	55	PF3/AN7	GNDD	−	
6	PB0/PP08	NC	O		56	PF2/AN6	TEST(u)	I	Test mode port for unit checker
7	PC7/RT07	S.DATI	I/O	System bus DATA IN input	57	PF1/AN5	TEST	I	Port for Test mode
8	PC6/RT06	S.REQ	I/O	System bus REQE	58	PF0/AN4	Destination	I	Port for destination switch L:MY(Europe), H:KU(North America)
9	PC5/RT05	TUNE	I	Tuner TUNED_SD	59	AN3	NC	I	
10	PC4/RT04	STEREO	I	Tuner STEREO	60	AN2	POS	I	POP UP display OPEN end/CLOSE end SW
11	PC3/RT03	TXDO	I	Tuner DATA OUT LC72131 (*)	61	AN1	KEY2	I	KEY input
12	PC2/PP018	TXMUTE	O	Tuner MUTE / IF COUNT	62	AN0	KEY1	I	
13	PC1/PP017	PLLCE	O	Tuner CE LC72131 (*)	63	PG7/EXI1	CD INSIDE	I	CD slider INSIDE SW
14	PC0/PP016	TXDI	O	Tuner DATA IN LC72131 (*)	64	PG6/EXI0	CD OPEN	I	CD tray OPEN end SW
15	PJ7	PLLCLK	O	Tuner CLOCK LC72131 (*)	65	PG5	CD CLOSE	I	CD tray CLOSE end SW
16	PJ6	RDSDATA	I	RDS IC BU1923F DATA	66	PG4	CD FOK	I	CD FOCUS OK
17	PJ5	NC	O		67	PG3	CD GFS	I	CD GFS
18	PJ4	RDSFM	O	Power ON/OFF for RDS IC BU1923F	68	PG2	CD SENS	I	CD SENS
19	PJ3	SDA	I/O	Electronic VOL IC M62420FP data	69	PG1	CD RO	I	CD 0 detection MUTE R ch
20	PJ2	HPSW	I	Headphone switch	70	PG0	CD LO	I	CD 0 detection MUTE L ch
21	PJ1	SDATAO	I/O	System bus DATA OUT	71	PE7/DAB1	NC	O	
22	PJ0	PD	I	Angle counter pulse input of POPUP display	72	PE6/DAB0	NC	O	
23	PD7	FLDATA	O	FL driver (LC75712/10) DATA	73	PE5/DAA1	CDSCLK	O	CLOCK for reading SENS serial data of CD decoder IC (CXD2587Q)
24	PD6	FLCLK	O	FL driver (LC75712/10) CLOCK	74	PE4/DAA0	XCDLAT	O	CD decoder IC (CXD2587Q) LATCH
25	PD5	FLCE	O	FL driver (LC75712/10) CE	75	PE3/PWM1	NC	O	
26	PD4	NC	O		76	PE2/PWM0	NC	O	
27	PD3	XCDPOW	O	CD power supply ON/OFF	77	PE1/EC/INT2	RDSCLOCK	I	RDS decoder IC (BU1923F) CLOCK
28	PD2	SPCONT	O	Speaker relay ON/OFF H:ON, L:OFF	78	PE0/INT0	ACPULSE	I	AC pulse input
29	PD1	NC	O		79	PI7/SI1	CDSQSO	I	SUBQ, level data input
30	PD0	XMUTE	O	System MUTE	80	PI6/SO1	NC	O	
31	PH7	XLEDCD	O	CD PLAY LED	81	PI5/SCK1	CD SQCK	I	CLOCK for reading SQSO
32	PH6	XLEDPOW	O	POWER LED	82	PI4/INT1	CD SCOR	I	Sub code sync. detection
33	PH5	POP	O	POPUP control	83	PI3/T0	CD LDON	O	CD laser diode ON/OFF
34	PH4	XPOWER ON	I	Power control	84	PI2/PWM	NC	O	
35	PH3	FUNC2A	O	PROLOGIC/SUR.OFF switch L:SUR.OFF , H:Processor output	85	PI1/RMC	REM	I	Remote control input
36	PH2	POP-	O	POPUP control	86	TEX	GNDD	I	
37	PH1	FUNC1A	O	Function switch CD TUNER AUX MD/TC L L H H	87	TX	NC	−	
38	PH0	FUNC1B	O	L H H L	88	Vss	GNDD	−	
39	MP	MP	I		89	Vdd	Vdd	−	
40	RST	XRESET	−		90	NC	NC	−	
41	Vss	Vss	−		91	PA7/PP07	NC	O	
42	XTAL	XTAL	−		92	PA6/PP06	CD CLK	O	CD decoder IC (CXD2587Q) CLOCK
43	EXTAL	EXTAL	I		93	PA5/PP05	CD DATA	O	CD decoder IC (CXD2587Q) DATA
44	CS0	E+5	I		94	PA4/PP04	CDSYSM	O	CD decoder IC (CXD2587Q) MUTE H:MUTE ON
45	SI0	D.DATA	I	Display data DATA	95	PA3/PP03	CDXRST	O	CD decoder IC(CXD2587Q) RESET
46	SO0	NC	O		96	PA2/PP02	LOADIN	O	CD tray LOAD IN
47	SCKO	D.CLK	I	Display data CLOCK	97	PA1/PP01	LOADOUT	O	CD tray LOAD OUT
48	PF7/AN11	D.REQ	O	Display data CS	98	PA0/PP00	CDMUTER	O	CD analog audio MUTE R ch
49	PF6/AN10	NC	O		99	PB7/PP015	CDMUTEL	O	CD analog audio MUTE L ch
50	PF5/AN9	NC	O		100	PB7/PP014	TCPOW	O	DECK power control H:Power ON

• Sequence after the POWER ON


Standby state
POWER ON
Turn the power ON
Set XPOWON (pin 34) to "L".
Bus data transmission
System bus communication transfer
Transmit the following information to other connected items.
• DEMO OFF
• System power ON : Turn the power ON.
• Function information (CD)
• CD information CDSTOP
Power supply to DECK Set TCPOW (pin 100) to "H".
Inhibit KEY reception for one second.
CD TRAY OPEN ? Check CD CLOSE (pin 65)
No pin 65 :"L"
Yes pin 65 :"H"
Close the CD TRAY
Is DECK connected ?
Yes
No
• D.REQ (pin 48) of microprocessor port outputs "H" and "L" in every 3.0 msec. Each item transfer the display data in accordance with the timing.
D.REQ = H MD data reception
= L DECK data reception
Data are transferred from D.DATA (pin 45) and D.CLK (pin47).
Cut off the power supply to the DECK. Set TCPOW (pin 100) to "L".
• Judge that there is no item (DECK or MD) when data is not transferred for three seconds.
The movement after it is judged that there is no item as follows.
When function is changed with function switch, function name of no item is not displaed. (Judge that there is no item when disconnecting a connector, too.)
To the function of function last-memory.
FUNCTION CD
Transfer the dummy data to TUNER PLL IC.
Initial setting of CD decoder IC.
TOC READING (at disc exist)
FUNCTION TUNER
Transfer the last data to TUNER PLL IC.
OTHER FUNCTION
Transfer the dummy data to TUNER PLL IC.
Process after 3.9 seconds after the POWER ON.
Transfer the data of FUNCTION, VOLUME, BASS and TREBLE to the Volume IC.
Process after 4.0 seconds after the POWER ON.
Release the speaker relay (SPCCONT (pin 28) :"H")
Release MUTE (XMUTE (pin 30) :"OPEN") *
* The condition that MUTE is not released
• At the time of VOLUME 0
• At the time of one except for PLAY in the MD and DECK functions.
The condition that SP CONT is not released.
• Headphone is inserted. (HPSW (pin 20), H :There is Headphone, L : There is no Headphone)

• Rise-up sequence after AC supplied to CD receiver microprocessor

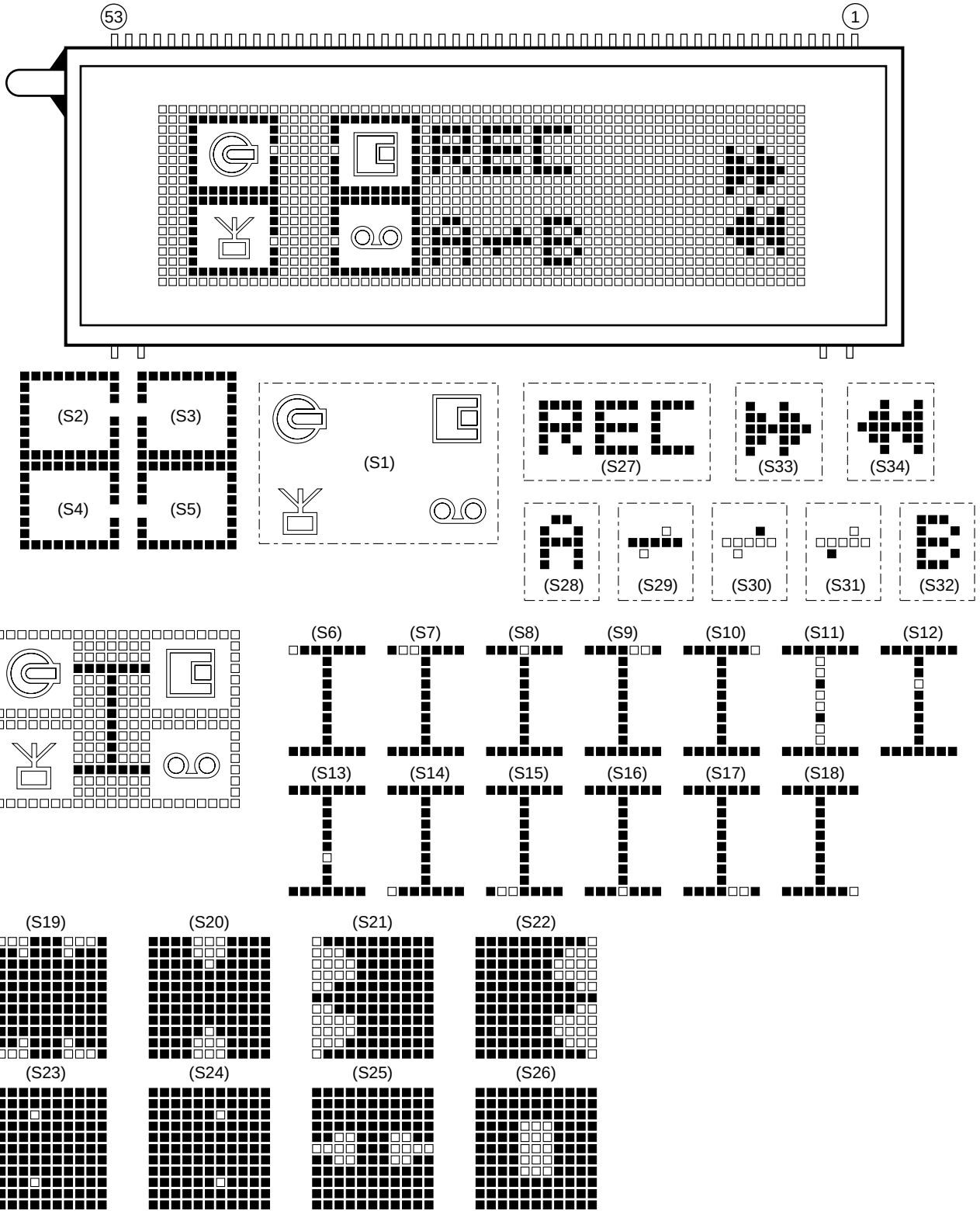

Reset
Release the hardware reset.
Initialize the internal data
Destination check
Judge with destination port (pin 58). H : KU , L : MY
TEST mode check
TESTU port (pin 56) L : TEST mode for unit checker
TEST port (pin 57) L : TEST mode
DEMO mode permission ? *
Yes
No
Standby state
DEMO mode start
* Judge the DEMO mode permission
Initial setting is DEMO mode permission.
Backup the release state of DEMO mode when user does release operation of DEMO mode. Judge it with the backup data.
• How to release the DEMO mode
In the DEMO mode, release the DEMO mode when you press STANDBY/ON key while pressing STOP key of the CD receiver.
Repeat the same operation at the time of POWER OFF when you want to permit the DEMO mode again.
Displey start
Start the display data transfer to FL driver.
Microprocessor ports
FLCE (pin 25)
FLDATA (pin 23)
FLCLOCK (pin 24)
Bus data transmission
System bus communication transfer
DEMO ON…… During DEMO ON
System power OFF end …… POWER OFF end
Function information (CD) …… Function CD
CD information CD STOP…… CD is STOP state
DEMO display

7.1.2 DISPLAY

■ AAV7056 (CD FL UNIT : V5601)

• **Upper FL**

● **Segment Designation**

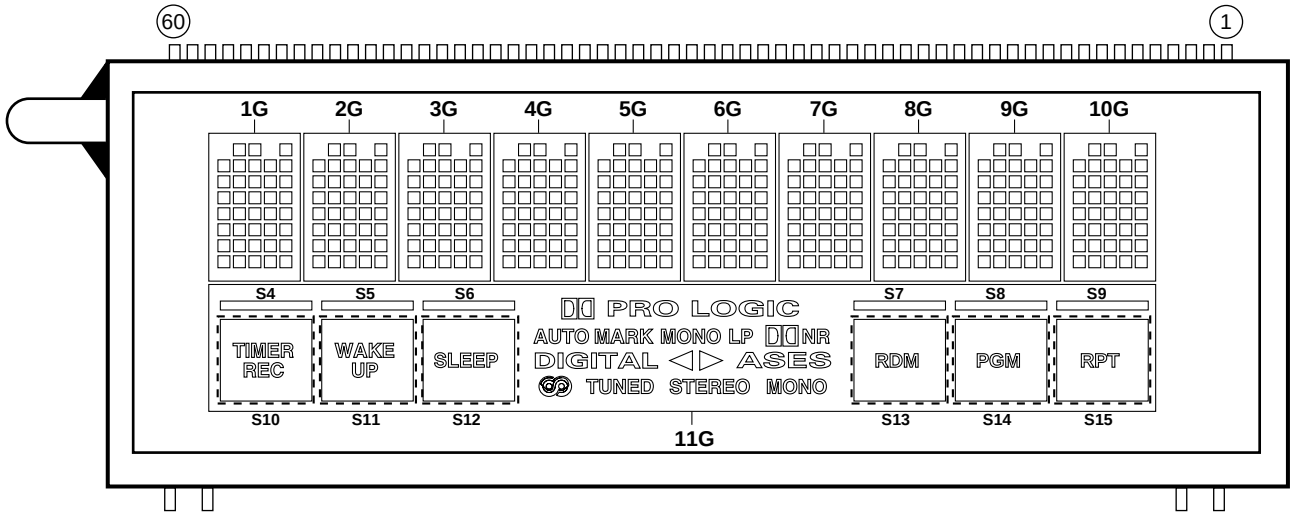


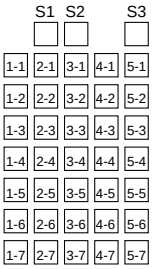
● **Pin Connection**

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Connection	F1	F1	F1	NP	NP	S35	S34	S33	S32	S31	S30	S29	S28	S27	S26	S25	S24	S23	S22	S21	S20	NC	NC	NC	NC	NC	NC
Pin No.	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
Connection	NC	S19	S18	S17	S16	S15	S14	S13	S12	S11	S10	S9	S8	S7	S6	S5	S4	S3	S2	S1	G	NP	NP	F2	F2	F2	

■ AAV7055 (CD FL UNIT : V5602)

• **Lower FL**





● Anode Connection

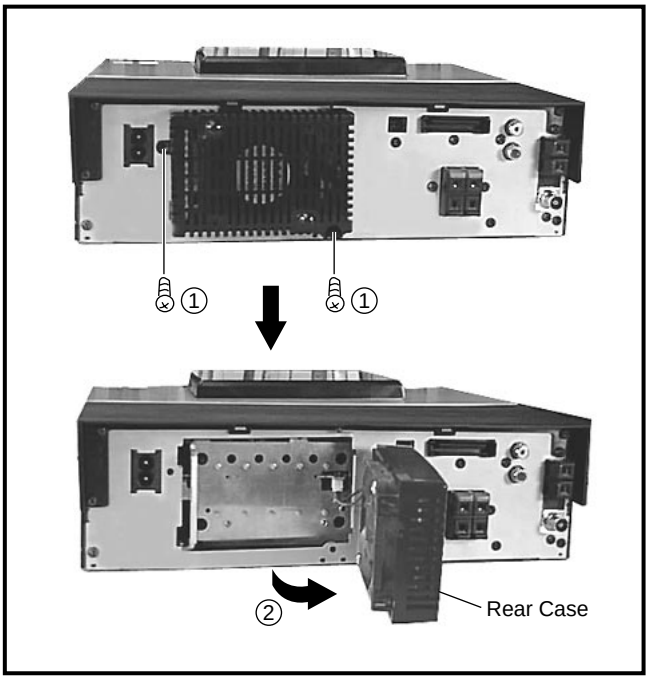
	1G - 10G	11G		1G - 10G	11G
P1	S1	-	P20	2-4	ASES
P2	S2	-	P21	3-4	
P3	S3	-	P22	4-4	TUNED
P4	1-1	S4	P23	5-4	STEREO
P5	2-1	S5	P24	1-5	MONO
P6	3-1	S6	P25	2-5	S13
P7	4-1	PRO LOGIC	P26	3-5	S14
P8	5-1	S7	P27	4-5	S15
P9	1-2	S8	P28	5-5	-
P10	2-2	S9	P29	1-6	-
P11	3-2	S10	P30	2-6	-
P12	4-2	S11	P31	3-6	-
P13	5-2	S12	P32	4-6	-
P14	1-3	AUTO MARK	P33	5-6	-
P15	2-3	MONO LP	P34	1-7	-
P16	3-3	NR	P35	2-7	-
P17	4-3	DIGITAL	P36	3-7	-
P18	5-3	◁	P37	4-7	-
P19	1-4	▷	P38	5-7	-

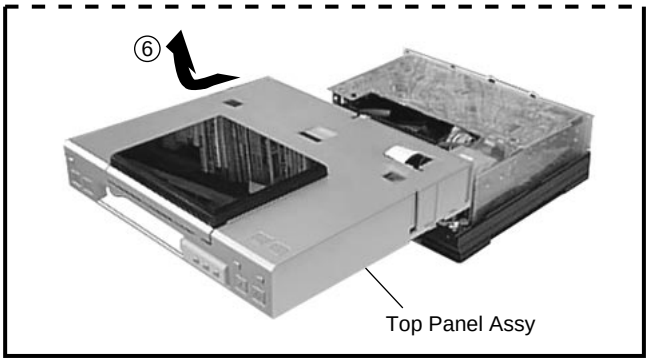
● Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Connection	F1	F1	F1	NP	NP	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	P38	P37	P36	P35	P34	P33	P32	P31	NC	P30	P29	P28	P27	P26
Pin No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Connection	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F2	F2	F2

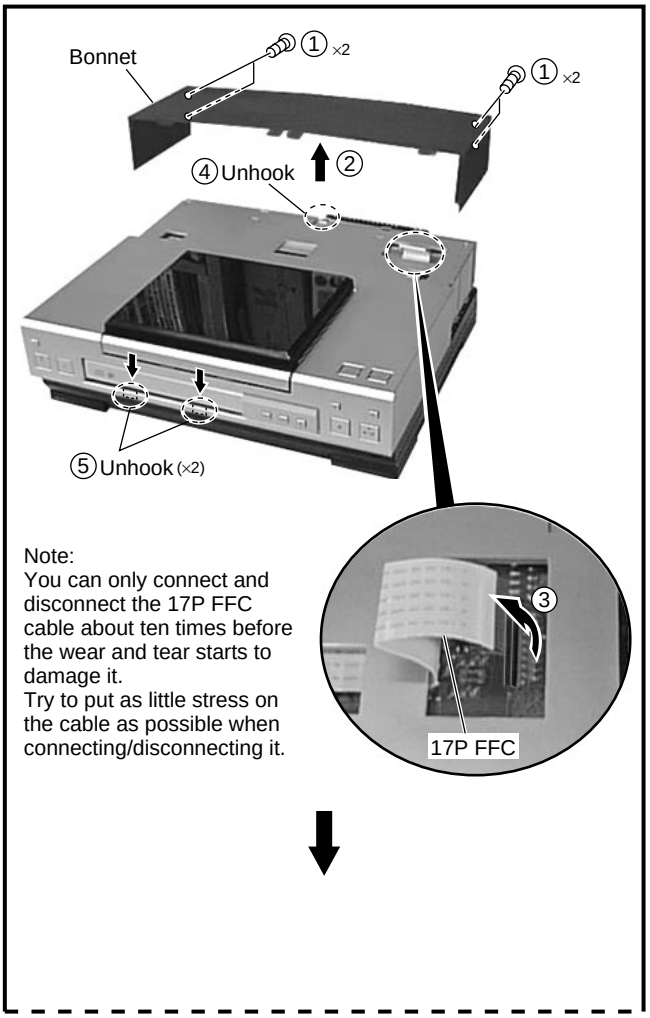
7.2 DISASSEMBLY

(1) Rear Case



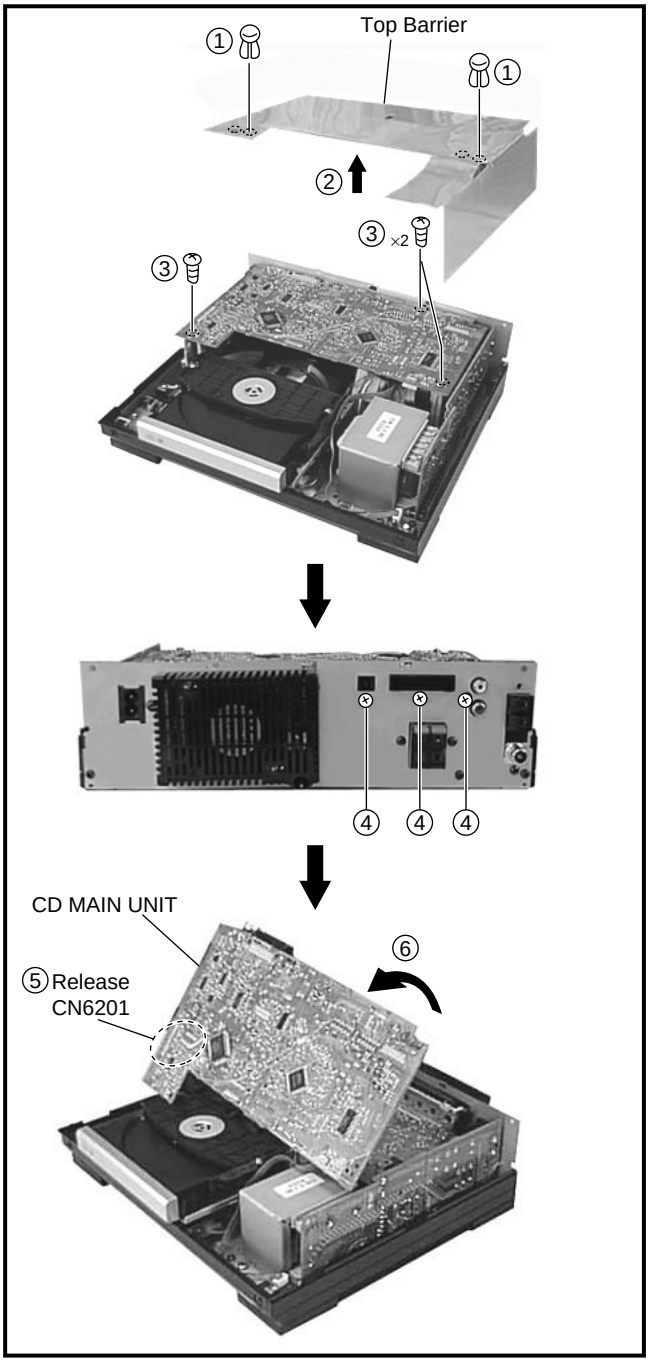


(2) Bonnet and Top Panel Assy

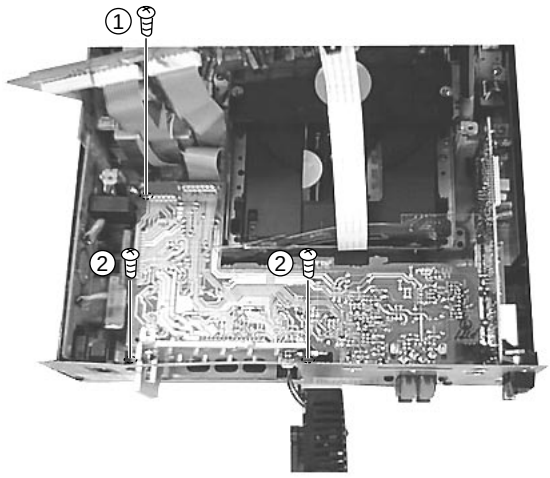


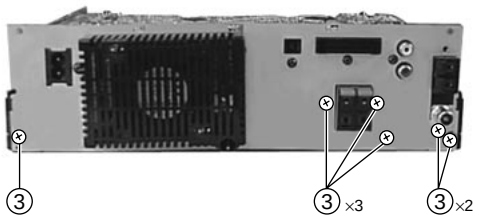
Note:
You can only connect and disconnect the 17P FFC cable about ten times before the wear and tear starts to damage it.
Try to put as little stress on the cable as possible when connecting/disconnecting it.

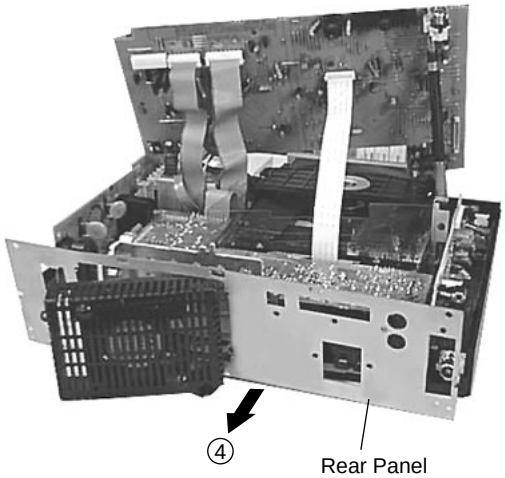
(3) CD MAIN UNIT

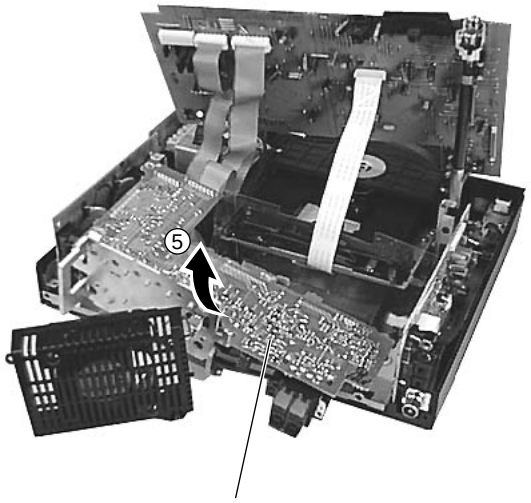


(4) CD AMP UNIT



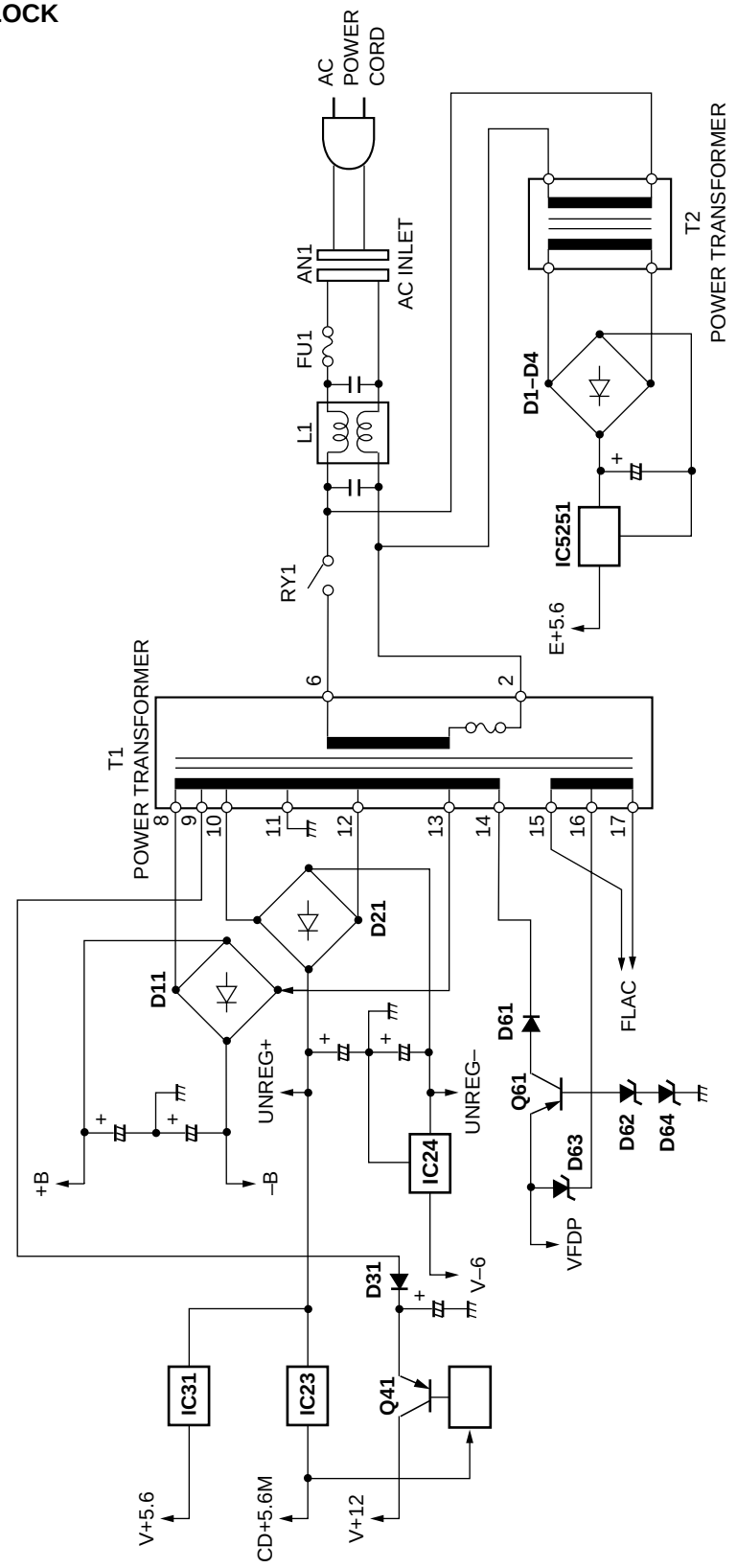






7.3 BLOCK DIAGRAM

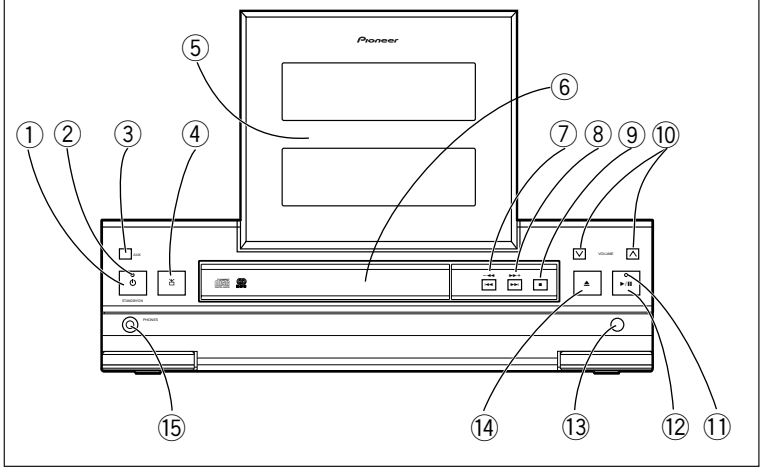
• POWER SUPPLY BLOCK



8. PANEL FACILITIES AND SPECIFICATIONS

• PANEL FACILITIES

STEREO CD RECEIVER XC-L5



STEREO CD RECEIVER XC-L5

① **STANDBY/ON switch**

② **STANDBY indicator**

③ **AUX button**

④ **FM/AM/station button**

⑤ **Powered display**

⑥ **CD tray**

⑦ **–·◀◀ button**

⑧ **►►·+ button**

- Roles of common operation buttons vary depending on the input function currently selected, as follows:

During Tuner Operation

–·◀◀ : Frequency and station – (down) button.

►►·+ : Frequency and station + (up) button.

During CD Operation

–·◀◀ : Fast reverse/track search button.

►►·+ : Fast forward/track search button.

⑨ **CD stop button (■).**

⑩ **VOLUME ∧ (Up)/∨ (Down) buttons**

⑪ **Playback indicator**

⑫ **CD Play/Pause button**

⑬ **Remote sensor**

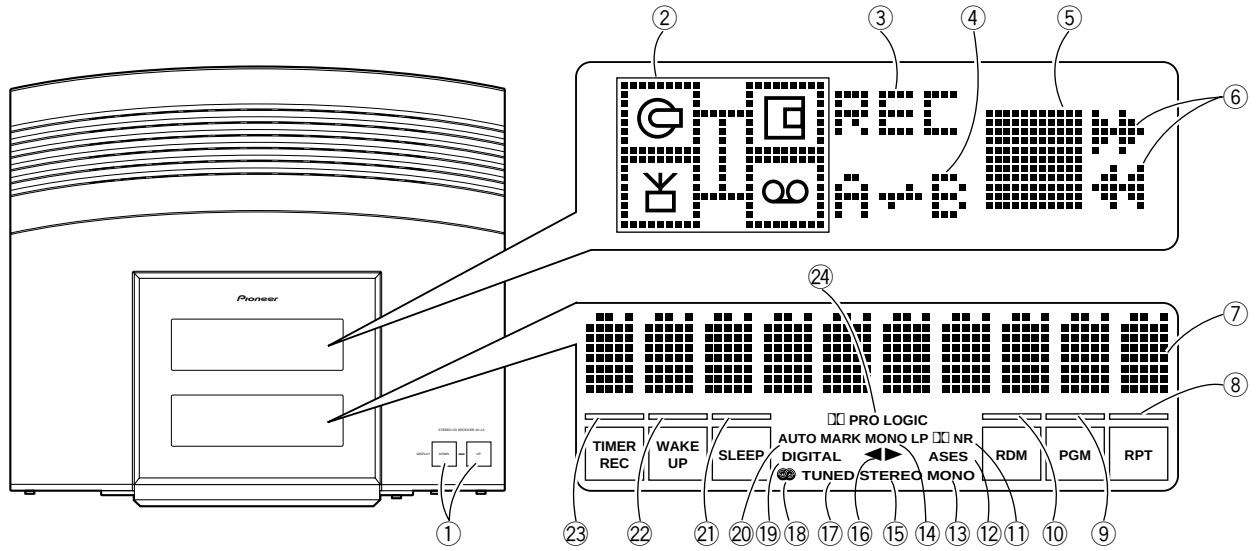
⑭ **CD tray Open/Close button (⏏)**

⑮ **PHONES jack**
For use with headphones equipped with a stereo miniplug. When headphones are connected, sound to the speakers is disabled.

*

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- “DOLBY” and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

POWERED DISPLAY



POWERED DISPLAY

① **DISPLAY UP/DOWN buttons**
The display is automatically powered up and down when the main power is turned on/off. The UP/DOWN buttons on the main unit or the remote control unit can be used to adjust the display's opening angle.

② **Function display: CD (), MiniDisc (), Tuner (), Tape ().**
The selected function will appear emphasized in one of the following ways:
In DISP MODE 1: Slightly larger display typeface
In DISP MODE 2: Surrounded by frame

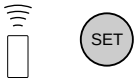
③ **Lights during recording.**
④ **Tape direction indicator (reverse mode)**
⑤ **Displays operation status**
⑥ **Lights during Fast Forward (►►) or Reverse (◄◄)**
⑦ **Displays characters and numerals**
⑧ **Lights during repeat play**
⑨ **Lights during program setting and program play**
⑩ **Lights during random play**
⑪ **Lights when Dolby *NR is ON.**
⑫ **Lights during A.S.E.S. setting and operation.**
⑬ **Lights during monaural reception mode.**
⑭ **Lights to indicate MiniDisc monaural long-play mode.**
⑮ **Lights to indicate reception of a stereo broadcast.**
⑯ **Indicates direction of cassette tape travel.**
⑰ **Lights to indicate that station is tuned.**
⑱ **RDS indicator lights in RDS mode.**
⑲ **Lights to indicate digital input to Mini Disc recorder.**
⑳ **Lights when Mini Disc recorder's AutoMark function is ON.**
㉑ **Lights during setting and operation of the sleep timer.**
㉒ **Lights during setting of the wake-up timer.**
㉓ **Lights during setting of timer recording.**
㉔ **Lights to indicate that Dolby PROLOGIC Surround is ON.**

■ Switch the DISPLAY MODE

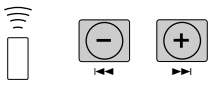
Two display modes can be selected; choose the one you prefer. The default mode set at the time of shipping is DISP MODE 1.

1. Press the DISPLAY/CHARACTER button to select "DISP SEL".

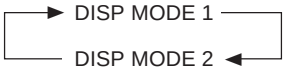
2. Press the SET button.



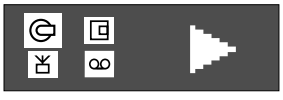
3. Use the and buttons to select "DISP MODE 1" or "DISP MODE 2".



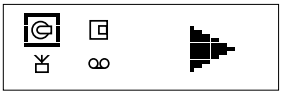
Mode alternates each time button is pressed.



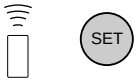
DISP MODE 1

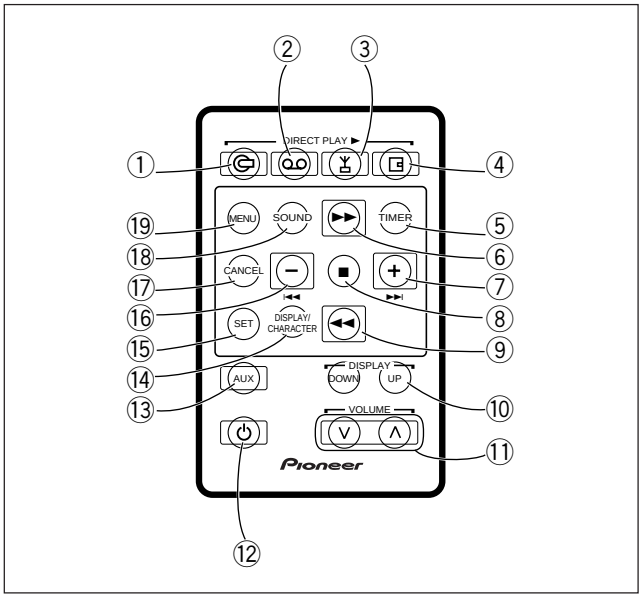


DISP MODE 2



4. Press the SET button to finish the DISPLAY MODE.





REMOTE CONTROL UNIT

① **CD Play/Pause button**

② **Tape Play/Direction button**

③ **FM/AM button**

④ **MD Play/Pause button**

⑤ **TIMER button**

⑥ **button**

⑦ **button**

⑧ **button**

⑨ **button**

⑩ **DISPLAY UP/DOWN buttons**

⑪ **VOLUME ∧ (Up), ∨ (Down) buttons**

⑫ **STANDBY/ON button**

⑬ **AUX function button**

⑭ **DISPLAY/CHARACTER button**

⑮ **SET button**

⑯ **button**

⑰ **CANCEL button**

⑱ **SOUND button**
Each time this button is pressed, the sound mode changes in the following sequence:

BASS → TREBLE → BALANCE

⑲ **MENU button**

- Roles of buttons ⑥, ⑦, ⑧, ⑨ and ⑯ vary depending on the input function currently selected, as follows:

During Tuner Operation

: Station + (up) button

: Station - (down) button

: Frequency up button

: Frequency down button

During CD Operation

: Forward track search button

: Reverse track search button

: Stop button

: Fast forward (manual search) button

: Fast reverse (manual search) button

During Tape Operation

: Fast forward button

: Rewind button

: Stop button

: Forward music search button

: Reverse music search button

During MENU mode Operation

: Plus button

: Minus button

: Cursor movement (during character input)

: Cursor movement (during character input)

During MD Operation

: Forward track search button

: Reverse track search button

: Stop button

: Fast forward (manual search) button

: Fast reverse (manual search) button

• SPECIFICATIONS

Stereo CD Receiver: XC-L5

Amplifier Section

Continuous Power Output (RMS) ..... 30 W + 30 W
(1 kHz, THD 10%, 8 Ω)
Continuous Power Output (DIN) ..... 22 W + 22 W
(1 kHz, THD 1%, 8 Ω)
Music Power (DIN) ..... 35 W + 35 W
(1 kHz, THD 1%, 8 Ω)

● Above specifications are for when the power supply is 230 V.

FM Tuner Section

Frequency Range ..... 87.5 - 108MHz
Antenna ..... 75 Ω, unbalanced

AM Tuner Section

Frequency Range ..... 531 kHz - 1,602 kHz
(9 kHz step);
530 kHz - 1,700 kHz (10 kHz step)
Antenna ..... Loop antenna

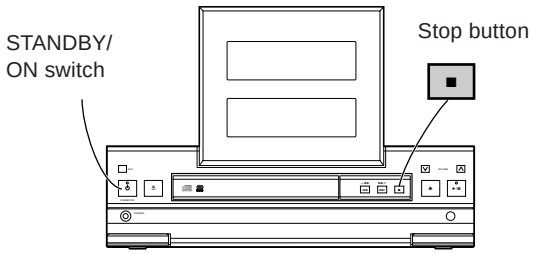
Compact Disc Player Section

Type ..... Compact disc digital audio system
Usable discs ..... Compact discs
Channels ..... 2 (stereo)
Frequency Response ..... 4 Hz–20 kHz
Signal-to-Noise Ratio ..... 102 dB (EIAJ)
Wow and Flutter ..... Limit of measurement
(0.001%) or less (EIAJ)
Power Requirements ..... AC 230 V, 50/60 Hz
Power Consumption ..... 81 W
Power Consumption in standby mode ..... 3 W
Dimensions ..... 290 (W) x 99 (H) x 277 (D) mm
200 (H) when powered display is at maximum height.
Weight ..... 4.5 kg

Accessories

Operating Instructions 1
Warranty Card 1
FM antenna 1
AM loop antenna 1
Remote control unit 1
Lithium battery (CR2025) 1
Remote control unit holder 1
Power cord 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

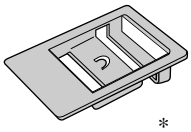


- When the default DEMO mode is on, supplying power after a power interruption (for example, when the power cord is first inserted into its outlet, or when power is restored after an interruption) will cause the DEMO mode to automatically begin, and **the powered display will also open**.
  The unit is factory set to a default of DEMO mode ON.
- During the DEMO mode display, pressing the STANDBY/ON switch on either the CD receiver or remote control unit will cause the DEMO mode to be cancelled.
- **To set the DEMO mode to OFF:**
  Press the STANDBY/ON switch while holding down the CD receiver's stop button (■) during the DEMO mode display.
- **To set the DEMO mode from OFF to ON:**
  Press the STANDBY/ON switch while holding down the CD receiver's stop button (■) in the standby mode.

• ACCESSORIES

- Remote control unit × 1 [AXD7170 (CU-XC005)]

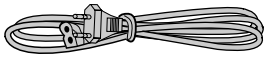
- Remote control unit holder × 1 (AAH7013)



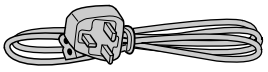
*

- Lithium battery × 1 [VEM1009 (CR2025)]

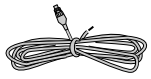
- Power cord × 1 (ADG7010) (For MYXK type)



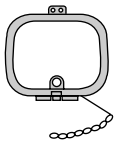
- Power cord × 1 (ADG7009) (For NVXK type)



- FM antenna × 1 (ADH7005)



- AM loop antenna × 1 (ATB7007) (shown assembled)



- Operating instructions × 1
- Warranty card × 1

* The remote control unit is supplied already mounted inside in its holder.